FIELD NOTES
R. M. ANDERSON
BOOK VIII
Dec. 13, 1910, to
April 14, 1911.

Field Notes.

From

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From Langton Bay, N.W.T., Canada, across Melville Mountains to Horton River, up Horton River to Barren Grounds, to Great Bear Lake, Dease River, Caribou Point, Dismal Lake, Kendall River, Coppermine River, Coronation Gulf.

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Book VIII.

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1910.

December 13 Tuesday. Langton Bay. N.W.T. Canada.

Clear. Light NW wind. Starting today to cross the Melville Mountains, enroute to Great Bear Lake— V. Stefánsson, Natkusiak (Billy), "Johnny" Sanderson (Bear Lake Indian half-breed), and myself; with nine dogs, one Yukon sled, and one toboggan (on top of Yukon sled.) Bearing of creek (pass) from Langton Bay House E.S.E. magnetic. Started from house 9h 9m and reached top of mountain (where sled load was cached for us a few days ago) at 12 M. (about 5 mi.). Reached creek valley running southward, within half a mile. Followed valley (E. mag.) two or three miles until we reached point where a low ridge divides from creek running more to southward— Original course (along lakes and creek followed by old whalers' sleds) said to be difficult on account of rocks at head of creek, so we crossed to creek running south, and followed it until 4:15 p.m. (about 8 mi. from Mt. Top. Camped without wood, using Primus stove. Forenoon cloudy and boggy. Afternoon cloudy; a few flakes of snow falling. Wind NW. Clear in evening. Saw a small flock of Ptarmigan on uplands. Tried both Aneroid barometers today (belonging

Dec 13 (Tu.)

& Dominion Geological Survey), but neither of them appears to be in working order.

Dec. 14 (Wed) Clear. Very cold. (at least -35° in evening) Very light South-westerly wind. On trail about 8.30 a.m. Followed a very crooked course (in general E.N.E.) along creek valley for 2-3 mi. then crossed a high ridge of hills, and at 2.30 p.m. reached valley of large creek running about S. (the whalers' sled route). Think we lost some time by not following the direct route (N.E.) from Mt. top to this Creek's head, yesterday. Reached mouth of Creek (into Horton River) about 3.00 p.m. and took up letter left for V.S. Oct 4th. Camped about 3.30 at mouth of small creek about 1 mi. further up river (Stefansson's last camp on river). Used old lodge frame of spruce poles, covered with Johnny's Caribou skin (32 skins) lodge cover (made of dressed Caribou skin, with hair removed. Have a fairly comfortable camp with large open fire inside - my first experience camping with Indian lodge or tepee. The necessity of leaving openings all around bottom of tent to create draft & carry out smoke, made ice continually freezing on our backs while faces and shins were nearly blistering with heat

Dec. 14. (Wed.).

Have great difficulty in writing tonight because ink freezes on pen before I can write more than two or three words. Saw one Raven today

Dec. 15 (Thurs.). Clear. Warmer. Light wind - from NE in morning & SW in afternoon. Travelled from 10 a.m. to 2 p.m. around several sharp bends of river, about 7½ miles. General direction southerly. Reached old camp and cache - where V.S. and Billy had stopped three days in coming down the river. Three Caribou had been killed on high hills east of river, and others seen every day. Meat cached under pile of green spruce logs. A wolverine had recently been working hard at cache, and nearly got to the meat. Saw two Fox tracks on river.

Victoria Land Notes. V.S. Natives say there are no Caribou on Victoria Land in winter, but plenty on Banks Land in winter. Migration of Caribou northward across Coronation Gulf just beginning May 1910. No musk-ox around lower Coppermine, or south and west sides of Victoria Land. Some musk-ox in northern part of Victoria Land; many on Banks Land

Caribou & Fox tracks

Musk-ox

Dec 15 (Thurs).
No Marmots or Brown Bears on Victoria Land, but natives know these species, and kill them on mainland. Mice common on Victoria Land, also Rock Ptarmigan — no Willow Ptarmigan seen. St Jameson saw fresh Caribou and Wolf tracks there May 17th.

Dec 16. (Fri.). Much warmer. Strong SE wind all day. Cloudy, with a little snow falling in afternoon. On trail 8.30 a.m. until 1.45 p.m., travelling about 10 mi., reaching V.S. old camp. F. First rock exposures in banks of river, at base of cliffs on both sides — light grey colored stone (limestone or very finely grained sandstone), in some places yellowish (oxides) on surface. One large island in midstream with vertical rock sides. River in walled place, 148 paces (V.S.). wide. About a mile below our camp, went about half a mile up a small creek on right side of river (V.S.'s Coal Creek). Much water flowing over ice in places on creek. Banks much hidden by deep snows. Examined one large seam of coal. (visible for about 30 ft up from bed of creek) and dipping down (Magn. E. 30°) at about an angle of 15° with creek bed. Coal seam from 7" to 9" thick.

Dec. 16 (Fri.).

fairly hard, somewhat crystallized; rather light but heavier than Langton Bay lignite. Coal over a stratum of very fine flesh colored substance which feels like talcum powder when rubbed off. (Strata 10'–12'+). Overlying coal a stratum about 12" thick (alternating thin hard and soft layers), showing a little yellowish efflorescence. Very fine sandstone overlying this stratum about 18' above coal seam — a stratum about 8" thick of very thin layers of fine sandstone alternating with layers of what appears to be very simply bits of coal. (Specimens taken #503. Stratum underlying coal. #504. Coal. #505. Stratum underlying coal. #506. Stratum of light and dark alternating sand, etc. 10ft. above coal seam. Saw one Ptarmigan on Coal Creek; also fresh wolverine tracks. Full moon 6:05 a.m. today. Sky cleared a little in evening.

Wolverine.

Dec. 17 (Sat.). Fine day. Sky partially overcast. Rather warm. On trail 8:30 a.m. Reached Stefansson's '09 house on left bank of river at 9:30 a.m. House roof partly caved in. Light rather poor, but took four experimental pictures of same:

(304) #4 Stefansson house. Stop 8. Iris 1½ m. B.C. 9:30 m.
(305) #5. do. 16 — 5 min. Bet. cloudy. " "
(306) #6 " 8 — 25 sec. " " "
(307) #7. " 8 — 15 " " "

Dec. 17 (Sat).

P.

Conspicuous exposures of coal seams on Rt. (East) bank of river about ¾ mi. above house. Two exp. negatives;

(508) *8. Bank of Horton R. showing coal seams at base of cliff

(509) *9. " " " " " " " " " " " "

Banks of river steep at coal exposures, 150'-200' high, lower portion sloping only a few degrees from vertical, upper portion, loose Earth, stones, etc., with ca. 45° slant.

Diagram of cliff from river level up to about 40 ft.

Strata - undulating.

about 4 ft. Very poor coal, or heavy bituminous shale. Spec. *507.

20 ft. — soft, grayish sandstone.

Coal - 1 ft.

Shales, about 2 ft.

Coal 1½' to 2½ ft. { In one spot (not the thickest = 2½ times L. of Gal. hammer) } { In middle of coal vein, a layer of sand about 1" thick } { Two specimens *508 - hard, from near top of seam. *509 - Soft - from bottom. }

Sand, or soft sandstone, about 4 ft.

Coal and sand, mixed, about 1 ft.

Shale - 1 ft.

Coal - about 15 inches

Shale - 8 inches

Coal - about 1 foot - hard. *511.

Gray shale - about 2 ft.

Brown coal or lignite, very light, showing small woody fragments - about 8 inches Hard *510.

Shales - bottom invisible, owing to snow banks at base of cliff.

About 2 miles S. of coal exposures, an outcrop of rock appears on west bank. Steep rock walls or ramparts soon appear on both sides - sometimes forming vertical walls on both sides of river.

Dec. 17 (Sat.).

Rampart walls not continuous; often broken by little gullies; gullies and valleys wooded, and a few trees (spruce) on tops of cliffs. Rock apparently uniform — usually dove-gray color, but often discolored by yellow oxides and clay on surface.

17. Saw two large hawks' nests — one on small ledge, one at entrance to shallow cave in face of cliff. For about half a mile (near N. end of ramparts), much rough all the way across river (evidently rapids). Reached U.S.'s camp of Nov. 22-24, where four Caribou were killed and some of meat half-dried and cached under a large heap of stones. Travelled about 8 miles today.

Caribou

B. Fox

Saw a Black (or Red) Fox running along river about 500 yds. ahead of us. Two Ravens seen just after starting out, and another seen in afternoon.

Ravens

The other day, a Raven circled about over our heads, apparently investigating our doings. Occasionally, he would suddenly dart his head downwards a little, half turning over sideways in the air. Johnny said this was a sign we would kill Caribou soon — the movement of Raven simulating the action of shouldering a pack load of meat.

Dec. 18. (Sun.) Cloudy. Very warm. Very light SE wind. A few flakes of snow falling in afternoon. Travelled from 9^00 a.m. to 12 M. about 5 mi. making camp early, in order to collect geol. specimens. Snow very deep and soft; only a little smooth ice. A few spots of open water. About ½ mi. below camp, a narrow creek enters from west, through rocky canyon. Stefansson ascended this creek about 15 mi. last year; found it kept uniform width, and timber heavier the further he went up; many old lodged frames — apparently the old Indian trail from Anderson River. [See next page] Climbed up to top of cliff about 1½ mi. below camp. Rampart wall about 60 ft. high, then gradual slope of about 100 yds. to low ridge composed of rectangular slabs of stone (much weathered, and readily breaking into leaves ⅛" to ¼" thick. Country behind, rolling hills, sparsely timbered. A few small spruce here and there on top of ramparts; more numerous in gullies. Ramparts much lower today (50–75 ft.) than yesterday (when we passed some at least 150 ft. high. Some rock specimens:

#512. From base of cliff, about high water level.
#513. " near " " " " 10 ft. above high water.
#514 " top of rampart wall; about 60 ft. above river.
#515 " broken ridge, about 30 ft. above rampart.

Dec. 18 (Sun.)

Caribou

Saw two Ravens today, and V.S. saw a flock of Ptarmigan about camp. Caribou and wolf tracks on river. Found a white Lemming (Dicrostonyx ×?) dead on snow of river.

LEMMING.

MOOSE.

* On creek from W, passed today, V.S., saw Moose tracks last winter, the only Moose signs seen near Horton River. The Tributaries
is one of largest ~~Branches~~ of Horton River

Took picture of cliff at point where rock specimens were taken today. *10. Rampart, Horton R. 8 – 4 m. – Cloudy 12 30 p.m.

(310)

Dec. 19. (Mon.) Cloudy all day. Fog in afternoon. Light SE wind. Very warm. Travelled most of day with bald head and hands. On trail from 8 a.m. to 1.45 p.m. making about 10 m., reaching Capt. Williams' old house. Snow deep and soft on river. Rock exposures isolated and scattering, with gradually sloping hills between. Spruce timber rather thick in places. River very zig zag – general course today between E. and S.

Cariboo

Saw a few old Caribou tracks on river. Exposed rock, similar to rest of Rampart below, but strata not so evenly laid, and much broken in places. Stefansson knocked off a piece of rock

Dec. 19 (Mon.).

about 10 ft. above present river ice level, which had a mass of amber-colored quartz crystals coalesced with the rock.

#516. Quartz crystals, with matrix. Right bank Horton R.

#517. Rock cliff ¼ mi. below Capt. Williams house. 10 ft. above ice.

Dec. 20. (Tues.). Clear night, considerably colder. Fog came up from southward about 9^m a.m., and gradually increased. Temperature soon rose again. Snow falling after 2^m p.m. On trail 7:30 a.m., and made camp at 12 3/4 p.m. (no little good wood is found for some miles further on). River for about 2 mi. above Capt. W's house, wide, flowing between sloping hills; then enters a series of rock ramparts (not as high as those further down). River here turns to East and then North. Snow deep and soft between ramparts; apparently no bad rapids; a little open water. Ice flooded and frozen for some distance above ramparts. Saw fresh (last night?) Caribou tracks crossing river, going west, and a few more old tracks; some fresh Fox tracks. Stefansson hunted on top of hills to East part of way but saw no fresh Caribou signs. Timber much sparser after passing last ramparts. #518. Rock from top of highest hill, east of River.

Dec. 21. (Wed.). Clear before 10^m a.m. Slight fog in afternoon. Colder. Light E. wind. Up at 3^30 a.m. On trail 5:45 a.m. to 1:35 p.m. - travelling about 15 miles. - north for about 6 mi. then Easterly the rest of day. A large creek enters from north near angle of river to South. (large willow-covered island at mouth). V.S. ascended creek, and took bearings for about 7 mi. (course of creek, up-stream N, NE, and NNE); said to come from two large lakes, and by this creek to be only one day's journey from Horton R. to Dawley Bay. Looking E. from mouth of creek, few spruce are seen up Horton R.; hills rounded and barren; a conspicuous ridge at eastern limit of vision has 6-7 little round knolls on top. After passing this ridge, river banks become steeper, with occasional rock exposures at base, and thick patches of timber appear in places. Very few, scattered little trees on tops of some hills. Saw several Rabbit tracks on river today, and a few Fox tracks; some old Caribou tracks. Good travelling during last part of day, owing to river having recently been flooded over. (Left nut-bottle in last night's camp.

Dec. 21 Wed

Dec. 22 (Thurs.). Clear all day. Very little wind - and there apparently little local breezes in the mts. Very cold (about -40°), frost formed repeatedly while travelling, in afternoon. On trail from 7^40 a.m. to 1.30 p.m.; camping on left bank, near old lodge. Heavy, soft snow about half the time today, alternating with smooth ice. Travelled about 12 mls. P. Passed through another series of rock ramparts in early morning, about 2 mi. long; some cliffs about 150 ft. high. Cliffs composed of hard, finely crystalline, buff-colored stone (#521). At base, near river bed, a stratum of darker stone, composed of reticular, serpentine folds, alternating dusty stone, layers of quartz etc (#522). While we were making camp, Dr. ascended highest hill near by (Mt. Wapiti) & found very little grass on slopes. One rock specimen from summit, about 600 ft. above river (#519.), - also another from about 200 ft. level (#520.); no rock exposures at base of hills here, all covered by talus. #521. From body of ramparts. #522. From base of ramparts. Saw several tracks of Weasels and Rabbits & new today; and recent Fox tracks

#1. Lodge – on bank of Horton River. 1 – 2 av. Cloudy 1 / 9 a.m.

Dec. 23 (Fri.). Cloudy all day. Very much warmer. Sky cleared about 4.30 p.m., and temperature quickly fell several degrees. Outfit 7.30 a.m. and travelled about 5 mi. (SE, SW, S, SW, etc.) around several sharp bends of river. Sled broke down after about 2 hrs. travel, and we made camp to fix it, and make some other needed repairs. Banks of river today steep, 45° slopes, stony, with sparse trees. One high (about 100 ft.), rampart cliff on right bank. Base-hard grayish stone, with thin irregular crystalline (#523) percolations; this overlaid by a stratum of variously mixed and broken crystallic rocks of several different types (this stratum about 8 in. thick and lies down very irregularly, from 6 to 8 ft. above present river level (#524). Some stone in this layer gray, greenish, reddish, white, etc. White stone in bands from ½ to 4" long masses 4" – 5 in. thick with occasional intercalations of gray stone (#525). Strata above the irregular stratum more yellow than stratum below (#526). Saw flock of light small birds (Redpoll. Acanthis?) flying across river. A few Ptarmigan tracks among spruce trees near camp.

Bare stony

Dec. 24 (Sat.). Clear — morning and evening. Sky partially overcast during middle of the day. Cold. Very little wind, apparently from SE occasionally. Went about 14 mi.. Good travelling for a few miles on flooded ice and hard packed snow, but some long stretches of soft snow. On trail 7:30 a.m. to 1:45 p.m. River zigzag - bends nearly at rt. angles every mile or two. Numerous rabbit tracks on ice, and a few Fox tracks — Red Fox (large), and Cross Fox (smaller). Johnny says track of Black Fox is much like Cross Fox, but smaller and narrower. Black (Silver gray) and Cross Foxes are called "Good fox") in contradistinction to cheaper Red Fox. Hills along river high and steep; with tree on summits. Rock exposures rare along river bed.

Dec. 25 (Sunday). Warmer. Cloudy day. Slight fog in afternoon. On trail 7:45 to 1:15 (about 10 mi.) reaching Stefansson's old camp of Nov. 18th (42d camp from beginning of Hurley river trip, 11 days from mouth of Dease R., this is our 13th camp from Langton Bay — U.S. made it down river in 7 sleeps.

Dec. 25 (Sun.)

Saw old tracks of Caribou today, crossing river to westward. J. thinks pursued by wolves, as he saw blood on snow at brink of river bank. A few Rabbit and Fox tracks seen today. Christmas today — put a cupful of raisins in bannocks, and fried a few slices from the side of bacon (instead of eating seal oil), in honor of the day. For breakfast - rice and seal oil. We have a little dried Caribou meat left, but are saving it for dog-food on the Barren Grounds, and eating none ourselves. Feeding dogs cornmeal mush and whale blubber.

Bears. Johnny Sanderson says that once he and another Great Bear Lake Indian followed the track of a Grizzly Bear (Brown Bear, i.e. Bear Lake). It led to a Black Bear's den. The Brown Bear had dug 10-12 ft. into the Black Bear's hole. There had evidently been a terrific fight, for about a hundred yards, at which distance they found the Black Bear dead, with one shoulder and part of meat eaten from ribs on one side. They followed the Brown Bear's tracks and killed him; he was also badly ~~bitten~~ torn and wounded in the shoulders and neck. Johnny thinks that Wolves never

Barren Ground Bear

Dec. 25 (Sun.)
molest Bears; never knew of wolves attacking a sleeping (hibernating) Bear.

Dec. 26 (Mon.) Cloudy a.m. Brisk northerly wind. Not very cold. Clear after 2 p.m. and very cold in evening. On trail 9 a.m. to 2 p.m., going about 12 mi. Made one portage (about ¾ mi.) across low wooded hills and down small creek, saving about 3 mi. of river. River flooding in one place. Hills low, rolling on tops, but "benches" and creeks well wooded. Benches along river in most places, from ¼ to ½ mile wide. A few Ptarmigan tracks around camp tonight. Two old lodge frames near mouth of small creek here. U.S. took rock specimen from right bank of river here. — Very finely crystalline brownish gray stone, with faintly stratified appearance. #527.
Snow one inch deep to-day.

Dec. 27 (Tues.) Clear. Very cold all day. On trail 7:40 a.m. to 2:30 p.m. — about 10 miles. Very slow travelling; deep, soft snow on river. Made one portage over low hills, with spruce trees, some grass, and down rocky creek bed, saving about 1½ miles.

Dec. 27 (Tues.).

Runnin and tributary creeks well wooded. A few Rabbit tracks seen on river today, as well as in bush, probably small Rabbits here as well as Hares.

Two men have been pulling in harness on sled all the time for several days, while another man breaks trail ahead. No rock exposures along river bed today; slopes covered by talus. Hills slope gradually away from river in most places.

Dec. 28 (Wed.). Clear. No wind. Extremely cold. Found we had made camp within 300 yds of U.S.'s old Camp No. 10, without seeing it in darkness last night. On trail 8.30 - 1.30, making about 5 miles up river. Snow 6-12 inches thick in most places on river not deeper than heretofore, but the snow seemed as fine as powdered sugar, and the intense cold caused the iron sled runners to stick, creaked about the same when passing over hard drifts (where runners scarcely made an impression), as in softer snow. It required the utmost efforts of five dogs and two men in harness to move sled at all anywhere. Decided to make camp early, sort out all stuff which

Dec. 28 (Wed.)

is not absolutely necessary to carry, cache it with Yukon sled, here, and try to reach the fishing place (about one day ahead). If fishing is good, we can return for sled next day. Otherwise, we have about grub enough to rush through to Great Bear Lake, with light toboggan and Johnny's hand sled.

We are leaving here: Yukon sled, hoodoo bar complete (Hamilden 40 — 290 (140 S.xt - (10 H.P. - 50 Stan). and loading tools. Running 2nd 20-ga. shotgun shells, 25 brass shells 10 lbs. of shot, 8 ½ lb. cans powder, cotton batting, .22 cartridges (2nd); .45 Colt's and ammunition, 1 ice pick, some miscellaneous tin ware (trade goods). 1 Box containing about 60 plugs black tobacco (Navy 5). Twenty-gauge shotgun, ramrod and case. Winchester .44 C.F. rifle, with loading tools. Large copper pot. Deerskin water boots (hanging on lodge frame).

Dec. 29 (Thurs.).

Leaving the sled and stuff here makes it necessary for us to return along the river to Langton Bay, probably in March and April, instead of along the coast from Coppermine River, as contemplated in the original plan. In that case, I seem to have thrown away

Dec. 29 (Thurs)

another winter by leaving good trapping, hunting and collecting ground around Langley Bay, within reach of supplies and collecting Equipment — for a midwinter trip to Great Bear Lake, which promises to be comparatively fruitless for any zoological collecting). At the best, two whole months will be wasted in making the overland trip and back — abandoning shotgun etc, makes collection of birds impossible (even if any are seen), and any mammal collecting will be [illegible] incidental to the hunting involved in keeping the pot boiling. My only reason for going to Bear Lake was the chance of picking up a few specimen (Bears, etc), on the return trip along Coast from Coppermine river — specimens which likely seemed to be some probability of preserving. On trail 12 M. to 3 p.m. — much soft snow, and some glare ice. Toboggan, although heavily loaded, pulled much easier than sled. We had cached at least 125 lbs. of our stuff with sled. Saw fresh track of two Brown Bears (apparently a female with half-grown cub, which had crossed river to west side and back again (probably yesterday). Stefansson

B. & Bear

Dec. 29 (Thurs.)
followed tracks for about an hour, before dark, and found they led in a straight line up over hills on to barren ground. A little warmer in afternoon; cloudy in evening, and much warmer. Wind NE on hill tops. Calm on river.

Dec. 30 (Fri.) Warmer. Cloudy. On trail about 9 a.m. and moved south. Found place where numbers of "Bluefish" (Grayling) and another species of small "whitefish" had been seen in numbers last month (Nov. 17th). Made camp about ¾ mi. S of old camp and set net (half across open lead, and half under ice. Water running open along East bank for about ½ mi. bridged over at intervals by a thin shell of ice, full of holes. Water is running out in streams of considerable volume, at intervals of 10-30 yds. from springs at the base of high sloping hills. In some places lead of open river water is 15-20 ft. wide. Could not haul net in evening on account of darkness. Saw flock of about a dozen Ptarmigan who in flew across river today. U.S. went back to follow Bears' trail, but lost it on account of drifting snow. Wind northerly fairly strong on hill tops. #529 Rock from high barren ground.

5 mi. E. of River, 400 ft. above R.

Dec. 30 (Fri.).
Sky cleared a little in afternoon, and temperature fell. Night cold. V.S. saw a small flock of Redpolls (Acanthis) today.

Dec. 31. (Sat.). Much colder than yesterday. Up at 4th a.m., not much refreshed after spending most of night shivering in wool-and sleeping bag. Have scarcely had a fair night's rest since leaving Langton Bay — up at all hours of morning, and suffering from cold while trying to sleep. feel "Lopy" in consequence. An Indian lodge at this temperature is the most uncomfortable dwelling imaginable. A strong draft is necessary all around bottom, to keep smoke going up through top. While fire is going — one faces blasts while reforming on one back, and when fire dies down, it is the same as out doors. The open bottom of tent also allows dogs to wander in and out at will, which makes more draft. Hauled out at daybreak — no fish at all. Broke camp at once, at 9th a.m., and moved up river until 1st p.m. reaching Camp No. 9: Water running out from springs at

Dec 31. (Sat)

base of hills, sometimes on one side of river, and sometimes on the other. Streaks of open water and perforated ice at frequent intervals. Saw a couple of fish (Grayling?) run out from under ice shelf near shore. Tracks of three Bears (together), or two, going down stream, and up across portage to our point when we saw tracks come out the other day. Many fresh Ptarmigan tracks around camp. A few Rabbit and Fox tracks or two. A very large creek enters from E. about 1½ mi. below Camp. one of largest tributaries of Horton R. apparently wooded for 5-6 miles. Stefansson hunted along East side of river today; saw old Caribou dung in snow. Hills slope gradually away to Eastward, unwooded. Hills to west side of river wooded as far as I saw. He saw sun today for first time, about one hour, (11 am to 12 m) from hilltops. No traces of sunlight on river. Set our watches ahead 30 minutes, to more nearly approximate local time. Occasional small rock exposures along river bed.

1911.

January 1 (Sunday). Clear. Somewhat foggy on river. Travelled from 9^00 a.m. to 3^10 p.m., making camp after dark. Wind NW on hill tops, and variable in river bottom. Had two long portages, saving from 1½ to 2 mi. on each one. U.S. hunted on hills Eastward, but saw no traces of game. Country to east of river rough, much cut up by deep ravines. A few scattered rock exposures along river bed (one about 25 ft. high). Broke off one specimen from left bank, - yellowish crystalline stone. #528. Saw numerous Ptarmigan tracks on upland.

Jan. 2 (Mon.). Cloudy. Warmer. Travelled most of day with bare hands. On trail 7^00 a.m. Light at 8 am. Passed U.S. old camp. No. 9 (Nov. 15) at 8^30 a.m. About 2 miles below this he came down creek valley from E. after travelling along top of hills for one day. He kept to river, running W. (making long portage through soft snow). River makes a great bend about 6 miles around, NW, W, S. and then East for about 2½ miles. A small creek, with wide valley, enters from NNW. Many Ptarmigan tracks in brush. Saw one Ptarmigan fly up creek. Old Bear tracks seen going down

Jan. 2 (Mon.).

river. River crooked after making big bend. Passed old Indian lodge at 4:30 p.m. Camped at 5 p.m. Made about 12 miles today. Valley well wooded. Hills along river noticeably lower. Have tracks fairly numerous. Red Fox and wolverine tracks on river.

Jan. 3 (Tues.). Cloudy morning. Slight fog. Light SE wind. Not cold. Clear p.m. Very cold evening. On trail 8:30 a.m. to 2:15 p.m. Passed four Indian lodge frames together on little point early in morning (short portage), and two a little later on opposite sides of river. River makes a great loop, ~~from~~ (going up) first west, then meandering south and east. Last course today on a 5-mile stretch running about ENE (true). Saw one flock of 5-10 Plainsmen fly across river. Fox, wolverine and Rabbit tracks. Hills lower, and in many places wooded to tops — sparsely on upper slopes, mostly small dead sticks. Large, straight spruce at camping place — some about a foot in diameter.

Jan. 4 (Wed.) Clear morning. Cold. Broke middle board of toboggan yesterday, and we were delayed for some time this morning, while Johnny made a new board of green spruce and fitted it into the toboggan. We had expected to reach a point near the limit of trees yesterday, and enter the Barren Grounds (called "Caribou Ground" by Dease Lake people), today. We are apparently near the tree limit now, from what we could see from hill top of last long portage. Travelled from 10[30] to 2[15] p.m. making about 9 mi. - general course E. or SE. Passed five old lodge frames. Hills lower, sparsely wooded, small trees. Large creek enters from SE. 81 paces wide near mouth, and apparently not decreasing in width for some distance. River makes bend (from NE.). Made camp early, intending to leave river and start across Barren Grounds tomorrow, by compass. N-S. followed river up about 3 mi. further, flat land, and small islets, course apparently unchanged. Saw old tracks of four Caribou in river; a few Arctic Caribou Eastern end of a range of high hills, a Cross

Jan. 4 (Wed).
mountains, a few miles south of us. A large isolated hill a mile or two west of end of range.
Very cold in evening

Jan. 5 (Thurs). Clear morning. Cold. Light northerly wind. Up at 3:30 a.m. Started this morning to cross the Caribou Grounds. Coming across before (going magnetic West, a few miles East of our present course, Stefansson travelled three days (two sleeps) on Barren Grounds, camping without wood. Our trail 9 or 9 a.m. shortly after "la grand jour" (big daylight)., travelling course magnetic East (98° E.) towards conspicuous high hill, apparently near eastern end of big range. Crossed large creek (running). Ascent gradual, scattered small spruce here and there mostly dead. Saw one flock 8-10 Willow Ptarmigan, and Billy shot one. Many fresh Wolverine tracks; one dragging some large object along. Reached summit of first ridge at 11 5 a.m. and looked down on large lake, extending NE and SW, 12 miles or more long. Crossed at point about 2½ miles wide. Large clumps of trees on W. end of lake. Conspicuous thick bunch of trees on East side of point (cape) on S. end of lake.

Jan. 5 (Thurs).

Country rough and hummocky SE of lake. Occasional scattering clumps of trees (spruce). Crossed another ridge (rather low), well wooded on southern slope; found old Indian lodge poles. Here Camped at 3 p.m. in last clump of trees visible from top of this ridge (about 2½ mi from summit). Trees few, but large and unusually thick at basal portions. Large range of high, mountainous-looking hills to S. and E. Saw deer today for first time, for about 1½ hours. Saw old tracks, and dung, on little lake in stony ridge, just north of big lake, which Johnny said was Musk-ox. Numerous old Caribou tracks south-east of big lake. Camped comfortably tonight with plenty of wood, instead of on barren ground as expected — "like a white Chicken" (Ptarmigan). Very cold day. Very slight SW wind, enough to freeze nose and cheeks in a few minutes if one neglected to keep them thawed out with fingers. Sky clouded a little in evening, and warmer.

Jan. 6 (Fri.). Cloudy. Strong wind blowing after midnight, and during forenoon, from about NW. SW. Warmer

Jan. 6 (Fri.)

On trail 9³⁰ a.m. to 3.¹⁵ p.m. Travelling about 15 mi. Magnetic East. Tree and stump enough for camping with stove for about half this distance. Country becoming rougher, and more rocky (boulder-stone) with every mile. Drifting snow made objects invisible most of time, at greater distance than 10 or 20 yds. at any time. Sky cleared a little above in a.m. for a little while, and moon was faintly visible at intervals. Colder in evening. Made camp digging hole in snowbank, building low snow wall, and supporting caribou skin roof, by cross pole and snowshoes. Passed Indian lodge frame about 200 yds. after leaving our morning camp. First half of day, over quite flat land, covered with grass and low willows and "partridge brush." Latter part of day over numerous rocky hills. Snow mostly packed hard.

Jan. 7. (Sat.). Colder. Blizzard thicker than ever. So thick snow flying that a man disappeared from view 25-30 yds away. Wind had shifted a little more to West.

Jan. 7 (Sat.)

Tent fairly warm while cooking with primus stove, and warmed during night them the bag has been any night during the trip. Slept ten hours at a stretch first good nights sleep since leaving Langton Bay. Tried to pack up sled in morning but snow was blowing too thick to do anything, or to travel without hitching sleds together, so we decided to remain in camp here, in spite of shortness of food. Storm incabated during day.

Jan. 8. (Sun.). Blizzard about the same as yesterday, but apparently a little warmer. Wind magnetic West (dead behind). Decided to start. On trail 10 a.m. (and traveled mag. E.). most of the time gradually ascending low grades, among rather steep rocky hills. Hills covered with scattered boulders, large and small; little grass. On E. (SE end), slope steeper, and we were running most of time. Snow drifting very thickly [A black rock 4 ft. high became visible at 39 paces. V.S.]. Descended a crooked creek valley, finding now and then a clump of grassed

Jan-8. (Sun.).

spruce thereupon. We soon came to an abruptly ending ravine, 45° + or greater grade every where (in places almost vertical), and with spruce fairly numerous along creek bed. Followed ravine down about a mile, apparently out of the mountains. Valley widened out, with no apparent end of trees, at edge of slough in direction of our course. Johnny said that there was more "Caribou ground" in that direction, and no more trees for a long way, and weather being too thick to see far. We camped at 1:15 p.m., having travelled 8-9 miles. Some bunches of rather large trees here, but in general trees were continually scattered. Some trees nearly a foot in diameter, thick trunks not much tapering and good lodge pole scales. Wind blew hard all night.

Jan. 9 (Mon.). Sky clear in morning, and wind blowing pretty strong from N.W. (true), but snow drifting very little. Wind gradually died down and hauled to Westward about 11 a.m. and soon died altogether. Started 7:40 a.m. and travelled Mag. E. about 5 mi. over some low, stony ridges

Jan. 9 (Mon).

and a long stretch of comparatively flat land with numerous shallow ponds. Our course yesterday was now seen to have been down a deep ravine, through a very large, three-pointed hill or low mountain. Another larger Mt. about two miles to Eastward, and a series of large hills, or low mountains, extending indefinitely to westward, apparently the southern boundary of a high plateau. This range extends approximately East and West (true), and from a distance look like true mountains in places with timbered slopes. Tree line extends E. and W. rather close to mountains on southern side. Saw sun today from a few minutes before 10 a.m. until 1:30 p.m.

Saw a few Caribou tracks (yesterday's) here and there among trees, after we had crossed a low ridge about 5 mi. S. of high range. From this point the whole country to E, S, and W. is seen to be pretty uniformly, though sparsely wooded, although many thick clumps of trees were seen. About 11 a.m. saw a band of eleven Caribou about 5 or

Caribou

Jan. 9 (Mon.)

Yards away, to our right. Stefánsson had gone to right with my rifle to follow old tracks, and Billy soon after the bunch to right. They had become alarmed by howling of our dogs, which had scented Caribou, and were straining wildly at their harness. Johnny and I went ahead with sleds, but made slow progress (from ½ to 1 mi. per hr.). We had to break trail, and I had to keep moving continually between the two sleds, as the leading sled was so frequently stopped by soft snow or hummocks. From different slight elevations, we could locate bands of Caribou here and there, by the clouds of steam arising among the trees, and occasionally see the animals. As there was no wind, and the Caribou always moving, the haunt of steam usually hung 300-400 yds. behind the band. Made camp at 1:30 p.m. U.S. soon came in, saying that he had killed no Caribou, and seen hundreds, perhaps thousands, crossing almost every lake. We went out with toboggan (about 2 mi.) and hauled Caribou to camp. — a young female with embryo (about size of rat) in utero; good condition

Jan. 9 (Mon.).

with back fat about ¾ in. thick, and a little fat on mesentery. Billy came in later with one leg of Caribou, having killed one female (smaller than Stefansson's, also with Embryos). He had also shot one Ptarmigan. Johnny says these are "salt water Caribou" because they are light colored. We were very fortunate to get Caribou at this time, as our dogs are very poor, with no food but shale flubbers and Caribou skin, and we ourselves had hardly enough food to take us to Dease River, on half rations.

Jan. 10 (Tues.). Clear. Calm. Cold. Remained in Camp today, resting and feeding up dogs. and repairing clothing, etc; which has gone to pieces pretty badly. Billy hauled home his Caribou and reported seeing many Red Fox tracks around the carcass.

Jan. 11 (Wed.). Clear. Calm. Cold. On trail 9:30 a.m. Sleds very heavily loaded and travel rather slow. Land rather level, several large ponds. Stefansson

6 a.m. 17th (Wed).

while going ahead, saw one Redpoll. Crossed fresh Caribou tracks (made since storm), very few minutes. Crossed fairly large river about 75 yds wide, running NE and SW. between alluvial cut banks 10-12 ft high. Timber thick along river, large, straight trees, some over 1 ft. in diam. Snowy Owl seen flying along river. On E. side of river saw steam from a large band of running Caribou about 3 or 4 yds away, only 2-3 animals visible. A little later four Caribou started across small lake which we were crossing, came within 100 yds, then turned back and stopped to look, about 300 yds. away before running out of sight among the trees. At numerous places, Caribou had pawed away snow to get at moss and grass. About 1 30 pm on E. side of river, two Caribou crossed our path about 100 yds. ahead. Belly fired and missed and Caribou circled to windward, and Johnny shot one young bull; no fat: both horns missing (seemed to have been broken off) Johnny says bulls do not have back fat until March. Went on about 3 mi. further (about 10 mi travelled today) before making camp. Thermometer

Jan. 11 (Wed.).

and I went back with toboggan and hauled Cariboo to camp. Sky clouded up a little after 3.30 p.m. and weather hardened a little warmer

Jan. 12 (Thurs.). Sky obligatly cloudy in morning. clear at midday. cloudy evening. Warmer. Slept in starting this morning, cutting up mat. &c. On trail 10.10 a.m. to 3.15 p.m., most of the time through heavy spruce timber, large trees standing quite close together. Crossed a series of low ridges, running about NE-SW, parallel to Great Bear Lake. country between level, a few small ponds. Crossed two creeks 1 - 1½ mi long. Saw three Rock Ptarmigan in thick woods, sled passed within 15 yds without scaring them up; a little further on two more flocks of Ptarmigan (willow?) flew up one flock about 12, and later one of about 30. Fresh Cariboo tracks everywhere. Saw rear end of a fairly large bull Crossing at eastern end of last lake. Johnny shot 1 ptarmigan after we did and saw four in heavy timber. Timber sparse at camping place, and ridge about a mile ahead seems to be partly barren

Johnny saw Marten tracks today

Jan. 13 (Fri.). Clear day. Not very cold. Cloudy in evening. Outfit about 10:40. after going about 2 mi and reached top of long ridge, near its western end, overlooking Great Bear Lake. Ridge disappears a mile or two westward, in low land, thickly wooded. Crossed a sparsely wooded area about 2 mi. wide on southern slope, then about 2 mi of compact slushy level land, grown up to willows from three to waist-high, with trees; mostly soft snow. Before reaching Dease Lake Memorial Cross land and gravel ridges Lake, at 2:30 p.m. Followed Coast East about 2 mi. before making camp at old lodge site. Considerable driftwood on beach. Carbon Point visible across bay (Clear Bay), said to be one day's travel. A high conspicuous point on island, bearing E. 65° Magnetic from point where we struck lake. Lake ice smooth in places; hard snow-drifts in places. Along shore a continuous ridge of broken ice, 4–5 ft. above ice level. No Caribou tracks seen after crossing last big ridge. Johnny says Caribou were plenty here last summer and he killed eight while crossing along shore in Melville and Hornby's York boat.

Jan. 13 (Fri.)

Camp tonight a mile or two west of mouth of Fighting River (so-named, according to Johnny, because of a fight there between Beads Lake and Good Hope Indians, in the bow-and-arrow days. River mouth said to be wide, and a good boat harbor, but river narrows a little way inside mouth.

Jan. 14 (Sat.) Cloudy, foggy morning. Fairly strong wind from West true. On trail 8:00 a.m., following shore around point west mouth of Fighting River then struck out, on south side of small island (low, rocky, with few small willows) about ½ mi off point; intending to follow along a chain of low bald islands, and camp on a large island said to be timbered. Distance to Dease River was estimated to be about forty miles. Lake ice mostly covered by low, hard snow drifts. Occasional long ice cracks or low pressed ridges of thin, jammed field ice. Fog became denser, and we missed most of islands. Wind gradually grew stronger, and snow was drifting thickly along ice in afternoon and evening. Lake ice apparently 4 to 5 ft. thick or more. About 6 p.m. crossed large ice crack

Jan. 14 (Sat.).
about 4 ft. wide, ice across duck about 5 mi. duck. No land sighted until 9 p.m., when we struck timbered point on mainland, which joining land was about 3 hrs. from Melvill and Hornby's house (8-9 mi.). Boiled tea and had lunch here, and started again shortly after midnight, having travelled 18 hrs. without stopping.

Jan. 15 (Sun.). Strong west wind, and air filled with falling and drifting snow. Started off again at 12.15 a.m., followed shore around point, then across bend channel, and made short portage to channel between islands. Water said to be open here in spots all winter and we had to go carefully. Saw no sign of water. Passed ruins (several old stone chimneys) of old Fort Confidence (Richardson and Rae - 1847 -). about 3 p.m. and Melvill and Hornby's house about 3.45 p.m. (33 days from Langton Bay)
On trail 16 hr. 45 min. House situated on lake shore about 2 mi. W. of mouth of Dease River. Flea Whitefish and Lake Trout being caught here

Jan. 15 (Sun.)

now. fishing said to be poor now, but fish will be plenty very soon. Indians hunted for Muskox East of lake last month, but saw no signs. Caribou not very plentiful. W.E.V. Chase killed two since Nov. 8. Several Indians lost large caches of Caribou meat and fat, stolen by Wolverines

Jan. 16 (Mon.) Clear. Very light W. wind and late Cold. Went down to old Fort Confidence to try to make pictures. Made one exposure and film slipped from reel when I tried to turn the next. Film probably was spoiled when I tried to fix Camera Cable. Tripod also broken. Hornby went to Hodgson's Yesterday and found that the Indians had not gone to Fort Norman as expected, hence mail had not gone down. Mail is expected to leave Ft. Norman within eight or ten days. It was almost decided last night that Hornby and I should try to go to Norman at once on the chance of catching the mail, but this morning decided that the chances were against making the three hundred miles in such a short time. It

Jan 16. (Mon.)
would be a very difficult trip, and my clothing, particularly boots, is badly in need of repair. Hornby went out & we like to see this fisherman, but got only half a dozen fish, — one trout (10-12 lbs)., with reddish salmon-like flesh, looking much like the Eskimo lakes' "Kalluk-put."

Jan. 17 (~~Mon.~~ Tues.) Cloudy all day, fairly strong West wind. Clear in evening, and colder. Stefansson went over to Hodgson's to settle with Johnny. He will say that bird life is very scarce around Flaxman Island, and he has shot only two Geese (Canada Geese) in three years. A few old squaw are found, many Gulls and Terns, a few Jaegers, Red Phalaropes, &c.
A few Snowy Owls (Nyctea) have been seen. Crossbills, Shore-Larks, Snow Buntings in summer. A few Red Squirrels live out all winter. Spruce Partridge at West end of Lake, but rare here. Ptarmigan fairly common all winter.

Jan. 18 (~~Tues~~ Wed). Clear. Not very cold. Johnny Sanderson came over, on his way to fishing place with his family. S Johnson had settled with him satisfactorily. Bought good pair of spruce wood snow-shoes from him for $2.00 cash.

Saw a flock of White-winged Crossbills (Loxia leucoptera) feeding on cones at top of tall slender spruce trees near house. About fifteen birds (both males and females) seen. Hornby says they have been around all winter. Harry Hodgson came over; said he had seen ten Caribou near his house yesterday. Melvill brought in a good load of fish.

Jan. 19 (Thurs). Cloudy. Strong N.W. wind. Snow blowing thickly on lake. Had intended to move on at least as far as Hodgson's today, but weather was a little too bad. Wrote out a brief summary of geological work done on Horton River trip for Dominion Geological Survey.

Jan. 20 (Fri.). Clear. Very light W. wind. Cold. Remained at house while S Johnson finished reports.

Jan. 21 (Sat.) Clear. Cold. A little cloudy and warmer in afternoon, but clear and cold again in evening. Left Melvill and Hornby's house at 3:50 p.m. and reached Jos. Hodgson's house (about two miles up from mouth of Deuse River) at 5:20 p.m. Hodgson has a large comfortable log house, built last fall; family consists of wife, son Harry, daughter Elizabeth, and nephew "Hib" Hodgson. They had killed 9 Caribou Killed in fall
two Caribou recently, and had lost some of the meat killed last fall, from wolverine depredations. Harry took 35 fish from net and lake a couple of days ago — mostly whitefish of 2 or 3 lbs. weight; also white Foxes caught last week.

Jan. 22 (Sun.) Slightly foggy. Cold. Little wind. Remained at Hodgsons all day. Hodgson was in charge of H.B.Co trading post at Peel River, and at old Rampart House (in Alaska) before Mr. Firth came to Peel River (18 yrs. or more ago.); and was in charge at first Norman in 1873. He says that it is only within the last half dozen years that Moose have been found on east side of Great Bear Lake. Moose

Jan 22 (Sun).

are now fairly numerous on Caribou Point south of Deese Bay, and the Indians killed one last month. Fresh tracks were recently seen near the mouth of Deese River. In the early days Moose were very rarely seen east of the Mackenzie. Moose.

I asked him about Stone's statement that a red variety of Caribou was formerly found on headwaters of Bell and Porcupine Rivers, and other Caribou. streams in that region. He said that he had seen and killed many Caribou there, but had noted no points in which they differed from Mackenzie River Caribou. He said that Indians had told him that on the south side of the mountains (Endicott Range) there was a variety of moose which ranged high up into the mountains beyond the timber line, and that these Moose had feet like a Goat's, with a pad in the center of the foot. Hodgson had seen no Moose like this, however. Moose.

The Beaver are said to have extended their range East of the Mackenzie during recent years. Beaver.

In travelling, Indians often start, 2nd, late in the day and camp after going a few miles. As in

Jan. 22 (Sun).

leaving Fort Norman, they go up Bear River about 12 miles to first good wood, and call this merely a "start," not to be counted in the number of days travelled

Jan. 23 (Mon.) Clear. Cold. Light SW wind, which became fairly strong in afternoon and evening. Up at 4:30 a.m. and left Hodgson's about 7:00 a.m. for trip up Dease River. Snow soft and deep in most places on river. River had flooded in a few places, and water was running over the ice at one place. About 10:00 a.m. saw four Caribou trails crossing river to Eastward and Stefansson followed them. Billy and I kept plugging up the river and did not see him again today. Load was very heavy and dogs did not pull well, so one man had to be in harness all the time, while the other broke trail. River banks well wooded with large spruce (apparently two species) and large willows. Clayey banks in many places. Banks cut earth, sand and gravel until about twelve miles from river mouth, where we passed through a narrow

Jan. 23 (Mon).

gorge, about 30 yds. wide with steep rock walls. A group of Cliff Swallows' nests, about thirty in a bunch about 20 ft. from river level, on right side of river, and two large Hawks' nests in niches of cliff on opposite side of river. About 5:30 p.m. we reached a little creek which Billy said was near Stefansson's house. Snow was very deep and soft in the brush and trees, and we had to unload sled and cache most of our heavy stuff before we could leave river. We took only our sleeping gear, and meat, etc. and after floundering through the brush for about two hours found the old camp, or brush lodge, only a temporary used last fall. As it was very dark, it took us a long time to find enough firewood, and we did not get to bed until after midnight. Wolverines had done some damage to skins here and stolen meat of five large bull Caribou. Saw small flocks of White-winged Crossbills on two occasions today, feeding on cones of spruce trees; three Ravens and several flocks of Ptarmigan along the river. Several fresh Caribou tracks on lower part of river

Jan. 24 (Tues.). Foggy. Strong SW wind, and snow drifting so thickly that one could not usually see more than 200-300 yds. on barren uplands. On trail 10:30 a.m. and reached Stefansson's house about 2:30 p.m. - about 9 miles, most of the way across rolling, stony barren uplands, with occasional patches of small willows. Snow generally had on barren stretches. Last two or three miles on large rocky creek, which flows through a lake about ½ by 1 mi. near house. Tannaumuk and Panniqabluk were here all right, and Stefansson had arrived late last night. Tannaumuk had broken his rifle shortly after the sun came back, and had killed no Caribou, but still had some meat left. (no Caribou seen after Xmas.) He had caught nine white Foxes, one wolf and nine Wolverines. The wolverines were mostly killed with a set gun (.303 Savage) Ptarmigan (both Willow and Rock Ptarmigan about Equally abundant) numerous here now. Nineteen were caught in snares yesterday, and two today.

Jan. 20 (Wed.). Slightly foggy. Strong wind from SW. and snow drifting badly on open ground. Hauled home some wood, and all meat (about one toboggan load) from cache. People here say they have used only two big trees for firewood in last month. About enough for one night's fire in Indian lodge. Sky clear in evening, and colder.

Jan. 26 (Thurs.). Sky clear in early morning, and wind more moderate. Stefánsson and Tannanmiak went down the river after goods which we cached Jan. 23rd, leaving at 10:30 a.m. and returning about 10 p.m. A wolverine had dug into the cache and dragged a clothing bag and sled-bag containing traps, etc., for some distance. Nothing lost but Billy's spy-glass. Chopped wood most of the day, as we have to take the big axe along on trip down river tomorrow. Billy making new pair of spruce snowshoes.

Jan. 27 (Fri.). Clear. Colder. Cold. Stefánsson and Billy started out to look for Caribou, and Tannanmiak and I started down river to get stove from Hodgson's

Jan. 27 (Fri.)

place. Left house at 10.35 a.m. and reached S's brush lodge at 2.30 p.m. — about 10 miles. Saw several small flocks of Ptarmigan along the creek, and Tanana-mixt lots fine willow and red Rock Ptarmigan from the snares. Saw fresh tracks of 3-4 Caribou going east across creek & fresh Wolverine tracks on uplands and around lodge. Very cold night, but we kept comfortable by replenishing open fire about every hour-and-half all night. Took five dogs — Roger, Kungiuna, Kunguvitk, Tiggallott, and the young Coppermine River pup; nothing on sled but sleeping bags, kettle, rifle and a little meat.

Jan. 28. (Sat.) Clear. Dead Calm. Very cold. Up at four a.m., but owing to delay repairing boots, etc., traps, etc., did not get started until 8.00 a.m. Kept course West true, from lodge, to left (south) side of Rabbit Mountain, followed a narrow lake about half a mile long, curving around the southern side of Rabbit Mountain, then down the slope about 3/4 mile N.W. to Dease River. Distance from lodge to river about four miles. Rabbit Mountain is a high, rocky hill — the last of a chain

Jan. 28 (Sat.)

of high, rugged hills extending in an E. by S. direction. Rabbit Mt. is separated from the rest of ridge by the lake just referred to. Struck river about ½ mile above the narrow rock gorge, near Hodgson's meat cache. Fresh wolverine tracks on hills and following our old trail along river. Set No 2 steel trap in middle of river, anchoring it down by a bunch of willow thrust through chain ring, and tramping the willows down under a mound of snow; trap baited by leaving a few scraps of Caribou skin on top. Left gorge about 11 a.m. and reached Hodgson's house at 2¹⁰ p.m. (about 12 miles) Saw yesterday's tracks of Caribou crossing river (to south) just above and just below the gorge, — none further down the river. Saw three Canada Jays in timber near Hodgson's, flying restlessly from tree to tree, and occasionally uttering a mellow, whistling note. Ptarmigan seen every mile or two along river. Hodgson had caught two White Foxes this week. Harry Hodgson said they had only about one week's supply of

wolverine.

Caribou

White fox.

Jan 28 (Sat.).

Most left, but 76 Caribou killed during the fall and winter, the Wolverines having stolen the bulk of the meat. Stopped at Hodgson's about one hour for tea, and reached Mitchell and Hornby's (about 4 miles) about 4:30 p.m. They, as well as Hodgsons, are getting a few more fish from the lake than last week, but not enough to get ahead very much. Travelled about 20 miles today.

Jan. 29. (Sun.) Clear. Cold. Light East wind on lake in morning. Calm afternoon and evening. Up at 4 o'c a.m. Left bull Caribou skin for Hornby. Got 2-gal. copper pot with cover, for Husky Wade. They wanted to give me some flour, but I refused, as their supply is not large. Took two trout and one Whitefish. The Bear Lake trout very closely resemble (in general shape, color, color of flesh and flavor) the Kat'lwat'put taken in the Eskimo Lakes. Tannaumint says they are the same. Asked him if he had seen this kind of whitefish in the Mackenzie delta or along the coast. At first he thought the fish were Anark'hlok, but later decided they were Pi'kat'tut.

Jan. 29 (Sun.)

The Anarkhluk and Pikattuk look very much alike, and I found them about equally common in the Mackenzie delta. The Eskimos consider the Anarkhluk much the better fish, as it is fatter (being fat both in spring and fall). Left Melville and Hornby's at 7:15 a.m., reaching Hodgson's at 8:35, running most of the way. Left Hodgson's at 9[00] a.m. and reached Rocky Gorge at 12:20. Found Wolverine in trap set in river. Rabbit Mountain at 1:30 p.m. High mountain near Stefansson's house plainly visible, true East from Rabbit Mountain. Reached brush lodge at 2[30] p.m. and stopped until 4:15, to boil fish and tea, load everything here (tent, skins, clothing, etc) on toboggan, set traps, etc. A Wolverine had been around the lodge since yesterday morning, and stolen the bait from Tannanmiktis deadfall trap. Started on the ten-mile homestretch at 4:15 and reached home about 8[00] p.m. Lost trail several times while crossing hard snow on barrens, and finally let the dog Roger keep the trail, while we followed

Wolverine

Wolverine

Jan 29 (Sun)

Roger kept the trail unerringly for about two miles on uplands, and about four miles on creek and lake. He usually is prone to wander off the track, but tonight he seemed anxious to get home after the long run. No moon, but brilliant Aurora borealis gave considerable light at times. At this time, there is enough light at 7 a.m. to follow an ordinary track, and distinguish landmarks at some distance, and remains light enough until about 5 p.m. Broad daylight (enough to hunt) from 8 a.m. to 4 p.m.

Stefansson hunted yesterday as far east as the reputed musk-ox grounds, but saw no trace - only a few Caribou tracks. Billy saw fresh tracks of four Caribou today. A few Ptarmigan have been caught in snares here.

When we came in sight of wolverine struggling in trap today, it took all my strength to hold back the dogs. Tannaumirk took a small club and used for about 15 minutes to kill the wolverine. The beast would rush fiercely at him, snapping his jaws.

Jan 24 (Sun).

and as the trap chain was pretty long, and the wolverine was only caught by toes of one fore foot, he had considerable scope for his activity. Tannaumik was afraid and only succeeded in rapping the wolverine's nose occasionally. Then he began to throw the little stick at the wolverine, which only enraged the beast. My patience finally gave out, as the dogs were tugging too hard for me, and I directed T. to get a large pole, with which he quickly despatched the animal. Air in the vicinity very strongly scented by the wolverine's musky secretion. Saw one Canada Jay and several Ptarmigan today.

Wolverine.

Jan 25 (Mon). Cloudy. Warmer. Clemp. Cal. Remained in camp today to rest, skin wolverine, etc. My feet were pretty sore night before last, from snowshoe lashings (as we had to wear snowshoes all day, except on track from Hodgson's to Hornby's. The trail was harder yesterday, and we did not wear snowshoes so much, and my feet did not feel very sore last night, but joints of toes are badly swollen

Jan. 30 (Mon.)

and one blister is pretty large. Weight 33 lbs.

#531. ♂ Wolverine. L. 114cm. T. 24.5cm. H.F. 19cm.

Color neck and shoulders light brown, becoming darker posteriorly. A light grayish brown transverse band across top of head; face and nose very dark brown. A broad yellowish buff band extending from back of shoulder along side and around across base of tail; band broad posteriorly, and very light buffy colored. Middle and tip of tail black. Under parts dark brown, paler posteriorly. A spot of pale buff on middle of throat, two small spots on sides of neck and one large buff spot in front of each shoulder. Legs and feet black. Iris very dark brown, nearly black. The animal was in rather poor condition, very little fat. In skinning it, noticed on each fore foot, a peculiar little curved bone on thumb side, which resembled a sixth rudimentary digit. Have not cleaned bones carefully enough to decide whether it is a protuberance from the scaphoid or a sesamoid. Billy set three hooks in lake — ice under thick snow about four feet thick. Two willow Ptarmigan in snares today. Boiled Wolverine meat is very good eating.

Jan. 31 (Tues.). Clear. Bright sunshine. Cold. No wind. Remained in Camp to fix stove, and Tannaumik repaired tent. Also cleaned up Wolverines bones. Stefansson and Billy went out to look for Caribou. Billy saw fresh tracks of four Caribou. Our fellow Ptarmigan in snares near house.

Caribou

February 1. (Wed.). Clear morning. Cold. Very light S. wind here. About noon, fog began to appear in low places, and before sunset (about 3 PM) fog was quite dense. Wind blowing stronger in evening and shifted to East. Stefansson hunted 9-10 mi. to southward, and saw fresh tracks of about a dozen Caribou going north. Could not see for on account of fog, and snow drifting all day; considerable wind on upland. Tannaumik visited old brush lodge but found nothing in traps. On his way back he found stomach of Caribou recently killed by wolves. Billy cut several holes in ice to set net, but could not succeed in getting line underneath ice. Cut up two large trees and hauled logs to house. Saw two Ravens flying over.

Caribou

Feb. 2 (Thurs.). Somewhat foggy. Strong East wind, and snow drifting. Wind lighter towards midday. Tannaumik caught one White Fox in trap and a Willow Ptarmigan in snare. Too foggy and snow drifting too badly to hunt today. Chopped up enough wood for a week ahead.

Feb. 3 (Fri.). Clear. Cold. Light NE wind. Noticeably warmer while facing sun at midday. Started at 9:35 a.m. with Stefansson and Tannaumik to get a load of dried meat, which is in one of Jimmy's (Indian) caches about 20 mi. S. of here (bearing about 135° mag. E.). Steady upward slope for 7-8 mi. From summit of divide (the high central ridge of Caribou Point) the surrounding country can be seen for 40-50 mi. — nearly the whole of Dease River, its mouth, Pitch Island, high mountainous hills E. of Dease River, into the East end of Great Bear Lake near M. & H's old house (McTavish Bay), and a great part of Caribou Point peninsula (between Dease Bay and McTavish Bay). Large numbers of Caribou

Feb. 3 (Fri.).

tracks going NE on north side of slope, since V.S. was here day before yesterday. Land mostly barren, with numerous scattered stones and small rocks. A little after sunset passed a few scattering spruce stubs on southern slope of hills, and camped about 5h 35 p.m. (pretty dark) at an old Indian lodge, with a little dead spruce wood. Small willows rather thick in small valleys, and snow soft here. Snow mostly hard on upland, but snowshoes necessary most of time. Toes badly chafed by snowshoe lashings. Very cold evening — using small wall tent of cotton drilling — not wind proof.

Feb. 4 (Sat.). Clear. Calm. Cold. Did not get started until 11h 30 a.m. and reached Jennings Cache at 1h 05 p.m. Would have made it last night easily if we had run a straight course. Crossed a large creek about 1 mile west, grown up with large, tangled willows — almost impenetrable. Path of trail made through deep snow

Feb. 4 (Sat.).

on top of willow trees. Prominent stony ridge with a few scattering spruce stumps, runs north about half a mile from cache. Southern slopes of hills south of cache (Gulch), heavily wooded — many large trees (20 in. diameter). Caribou "smoke" seen on large lake about 1 mi. S. and two large bands (of about fifty and a hundred) seen going East. V.S. went after them while T. and I made camp. Caribou hunt unsuccessful on account of calm weather and cold — crunching of snow heard for a great distance. Another band passed near camp about sundown and I went after them but was unsuccessful. These were going East, but other small bands were also seen going south and west. Flushed several Ptarmigan from holes in snow shortly before dark. Nearly stepped on them before they would fly. Saw two Canada Jays on rack, and Wolverine tracks beneath and on top of same, but Wolverine had been unable to get inside.

Feb. 5 (Sun.) Cloudy. Strong E. wind. Rather cold. Frost face several times during day. Good Caribou hunting weather. Stefánsson started E. and I west. Soon saw a band of 40-50 Caribou feeding on edge of lake to SE, and went after them. As I approached the lake saw three wolves (all tawny yellow) chasing a fawn on the lake. I was out of sight for some time and when I looked over the ridge near lake saw all standing still: wolf x 200 yds. x Wolf 150 yds. ⊗ Fawn. 50 yds. x W. The wolves soon made a dash and the leading wolf got within about 50 yds of fawn, which zigzagged away again, and finally all disappeared over the hills, the wolves apparently not gaining any. The large band of Caribou had apparently been alarmed by wolves, and moved up on some low hills with sparse trees. They continued to feed and move slowly one at intervals. V.S. was stalking the sand bunches and when the band finally crossed his path, killed a young bull. I went home for toboggan and dogs and hauled meat home before dark.

V.S. went after another band of Caribou which was feeding about 2 miles away near another lake, and

Feb. 5 (Sun.)

Killed nine, which he covered up with snow, unskinned. Coming home about dark, he met another band coming East, and killed & wounded seven (?) more. Some at about 50 yds. range. He saw a White Fox following a wounded Caribou, eagerly licking up blood from the snow; Caribou apparently not afraid of White Fox. Coming home just before dark, I saw several hundred Caribou, some bands moving East, some West, and some South.

Feb. 6 (Mon.). Cloudy. Warm. Very light E. wind in morning, scarcely perceptible after noon. Went out and skinned Caribou all day, cached meat and skins of nine in one large pile, and hauled home one load. Legs and heads were frozen, but otherwise carcasses were readily skinned. One cow Caribou only had considerable back fat, but several cows had kidney and intestinal fat. Stefánsson spent most of the day chasing the Caribou he had wounded the evening before, and succeeded in getting five — three fawns. Foxes had eaten parts of two Caribou, and one was eating when

Feb. 6 (Mon.)

he came up, quite unafraid, although it would look up occasionally. He shot it at about 30 yards.

Skinned two Caribou for scientific specimens — one young bull, and one Cow.

*532. ♂ Caribou — Length (nose to tip of tail. 67 in. Height at shoulders - 42 in. Depth Chest 19 in. Shoulder to hip joint - 36 in.

*533. ♀ Caribou — Length, 64. Height, 39 in. Depth Chest. 19. Shoulder to hip. 35 in. (Horns small — three small prongs on right horn, and two on left.).

Caribou

Two Canada Jays seen on rack. Only two Caribou seen today — at a distance, going NE.

Feb. 7 (Tues.). Cloudy a.m. Clear p.m. Warm.

Skinned two Caribou fawns, both females, one much darker colored than the other.

*534. ♀ Caribou fawn. (Very light colored, one horn about one inch long, other horn not protruding through scalp). L. 61. Ht. 32 Depth Chest. 15. Shoulder to hip 23 in.

Caribou

*535. ♀ Caribou fawn (dark colored. Horns covered with velvet, 6-8 inches long. L. 69. Ht. 32½. Depth chest 16. Shoulder to hip 27.

Feb. 7 (Tues.).

The other fawn killed was of the white phase, and had horns about one inch long. Stefansson found one more Caribou which had wandered off and died — making his total killing sixteen. A Fox had eaten from the ribs, but left back fat. Ravens had picked through the skin to get back fat. This was the fattest Caribou killed, but having been badly wounded, and left unstrained, was badly tainted. Tannanuirk hauled meat all day, and saw two black Wolves, and many fresh Caribou tracks

Feb. 8 (Wed.) Clear. Light NE wind. Warm. V.S. went home alone to house. I worked all day building snow house outside of tent. Set up ridge pole a little higher than ridge pole of tent, and leaned poles against same on either side, leaving a 6-8 inch space between tent roof and pole. Corned outside of framework with blocks of snow, and chinked up crevices with snow, thus making practically an A-tent of wood and snow. Tann. hauled three toboggan loads of meat to the rack. One White Fox in trap which I had set at meat cache. T. saw three Wolves today.

Feb. 9 (Thurs) Clear a.m. Cold Wind East
Cloudy in evening. Tannaumirk hauled in two
loads of meat — all the meat. Caught one White
Fox. I finished building the snow house —
Canada Jays) were around rack all day, picking
at the meat. Tannaumirk, owing to misunder-
standing, made my White Fox into a "fur" skin -
Stefansson's Fox too badly mutilated for specimen,
and T.'s was skinned in the field.

Feb. 10 (Fri.) Cloudy. Warmer. Wind East, blowing
a drifting flyzard in evening. Nothing in traps
today. Thawed out and skinned legs and head
of fourth specimen; also several other legs and
heads for camp use. It is customary to use up
the bulky, bony parts of an animal first — cook up
heads, necks, etc, and crack the long bones for marrow fat
so as to haul solid meat, as much as possible.

Feb. 11 (Sat.) Cloudy. Warm. Snow falling most of
day. Strong E. wind. Tan. went to look at traps and
caught two White Foxes. Coming home he ran

Feb. 11 (Sat.)
across five Caribou in the storm and killed two cows, one with five or six pounds of back fat. Both animals had some fat

Feb. 12 (Sun.) Clear. Colder. Wind S.W. Tam. hauled home the two Caribou killed yesterday, and saw two Wolves — one black, one white. Canada Jays around camp all day.

Feb. 13 (Mon.) Clear a.m. Wind SW. Cloudy in evening, with little snow falling. Wind N. Tam. caught one White Fox, and one Wolf (typical very fat. tawny yellowish; rather small wolf). Working every day now, thawing out Caribou skins, and cleaning fat, bones, and skulls.

Feb. 14 (Tues.). Cloudy a.m. Warm. Clear p.m. Four Canada Jays around house and meat cache all day. Often chase each other about, apparently courting. Usual song is a low slurred, whistle. Stefansson and Billy arrived in evening, with three dogs, hauling sled stuff in a ball Caribou hide.

Feb. 14 (Tues.)
During our absence, Billy had hunted north-west toward Dease River, and killed two Caribou. He had also seen one Moose, and tracks of another, but had not pursued it, on account of the calm, cold weather, which would have made approach practically impossible.

Feb. 15 (Wed.) Cloudy a.m. Clear p.m. Strong East wind. Stefánsson and Billy went out to south-westward, and saw about a hundred Caribou. Killed one bull each, neither with fat; both hornless. Stefánsson saw one band of about fifty bulls, all hornless, except one. The horned bull he was unable to get near to. He used the Indian method of running at the Caribou while they were on a fairly large lake. The Caribou circled about him, apparently unwilling to get off the lake into deep snow, but the lake was too large to keep the Caribou within range. Meat hauled home tonight.

Feb. 16 (Thurs.). Clear. Warm. East wind. V.S. went to scene of Caribou killing yesterday, and saw a

Feb. 16 (Thurs).

Wolf feeding on the entrails of a Caribou. A Raven was watching the Wolf, but whenever the Raven came very near, the Wolf would drive him away. Finally the Wolf carried a piece of entrails some distance away, leaving the bulk behind. The Raven, instead of remaining to eat, followed the Wolf about in the hope of picking up a few small fragments. Whenever the Wolf moved, the Raven hovering overhead proved a guide to the Wolf's whereabouts. After stalking the Wolf for several hours, Stefansson finally shot her.

*536. ♀ Wolf. ad. (white, tawny yellowish, with a few black hairs intermingled along median line of back). Length (nose to tip of tail 157 cm. Tail 42 cm. Hind foot 38 cm. Girth of chest 75 cm. The animal was quite fat, and we tried out a quantity of tallow for our lamp. We boiled two messes of the meat, but it had a slightly disagreeable taste. One dog (Ivarluk) ate the meat (raw) but the other dog (Kotak), refused to eat the meat or drink the broth in which Wolf meat had been boiled together with Caribou meat. After

Feb. 16 (Thurs.)

Gray Wolf.

being offered Wolf meat several times, he would sniff very suspiciously even at Caribou meat for some time before eating it. A Wolf had put his nose into one of Billy's wire traps last night, but trap was not large enough to hold him.

Feb. 17 (Fri.) Clear. Warm. Light East wind. Stefánsson and Tannaumirk went back to the house with a toboggan load of meat, taking six dogs, and leaving two with Nathushiak (Billy) and me. A Wolf was heard howling all forenoon.

Wolf.

Feb. 18 (Sat.) Clear. Light E. wind. Billy caught one White Fox in trap, and saw another at a distance. He also got some green spruce sticks for snow-shoe and toboggan material.

Wolf.

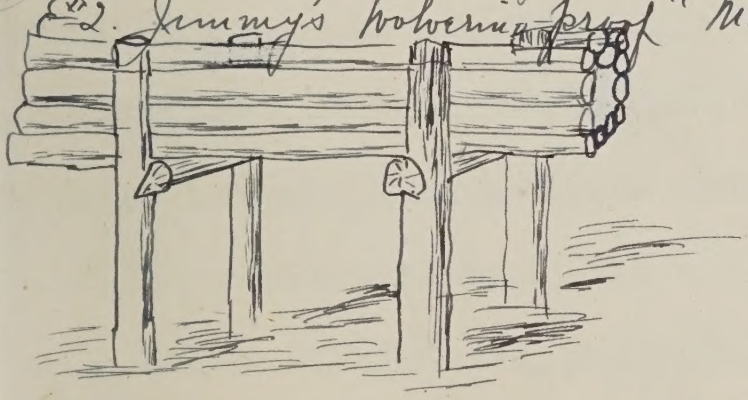
Feb. 19 (Sun.) Sky partially clouded all day. Light East wind. Warm. Canada Jays around camp as usual. No Caribou seen.

Feb. 20 (Mon.) Clear. Light West wind. A little

Feb. 20 (Mon.)
colder than yesterday. Cut up a quantity of thawed out meat, and hung it up on a series of racks around the stove to dry. Billy caught one White Fox in trap. A Wolverine had sprung one trap, leaving a little hair, but had got away. Saw one Wolf and fourteen Caribou. Made two Kodak exposures.

91 #1. Snow house, covering tent. 8 — 1/100 — Brt. Sun. 130 p.m.

92 #2. Jimmy's "Wolverine proof" Meat Cache. 8 — 1/100 — B.S. 130 p.m.



Construction: Find, three (or four if possible) trees in suitable position to form upright posts. Cut off trees 10-12 ft. above ground. Notch uprights deeply on inner side to support horizontal beams. Lay logs across beams to form floor, projecting 2-3 feet beyond each end. Logs forming sides of box are notched on inner sides to receive end pieces (short logs). When filled up, cache is covered with a layer of heavy green logs, three or four deep — too heavy for a Wolverine to move, and too deep to gnaw through if he succeeds in getting on top. Uprights are stripped of bark, and made as smooth as possible. If an

Feb. 20 (Mon.).
animal succeeds in climbing the upright posts, tho projecting ends of the floor timbers prevent him from getting around to the top of cache. Having no foothold he can not work at the cache from bottom or sides, and consequently one thickness of timber suffices for these.

Feb 21. (Tues.) Cloudy. East wind a.m. Warm. Clear p.m. Wind NE. Billy killed a Wolverine with a set gun today. Rifle (.38-55.) cocked, and set up, covered by a little snow house. A line attached to trigger, was fastened to a bit of meat. Wolverine took meat in mouth, and bullet came through snowwall, striking the beast in the neck. A fairly good skin ("Hasty" valuation), with broad yellowish buff band extending along each side and meeting across base of tail. Animal was rather poor in flesh. L 90 cm T. 22 cm. H.F. 17 cm. Somewhat smaller than the male Wolverine caught Jan 29th.

Wolverine

Feb 22 (Wed.). Cloudy. Strong E. wind all day, which increased to a howling blizzard after

Feb. 22 (Wed.)

sundown. Cut up a large Caribou skin into babiche (rawhide thongs) for snow shoe lacings. The fresh, damp skin had been tightly wrapped up with hair side out and hung up in a warm place near top of tent for two or three days, until hair became so loose that it was easily plucked and scraped off. Two men do the cutting. The damp ~~wet~~ skin is folded once longitudinally, and a long slit about 1 ft. long made along middle of fold. The cutter starts on the inside

of this slit and cuts continuously around this hole until the circumference of the skin is reached, holding skin taut with one hand, and gauging width of line cut between thumb and knife blade. The other man holds the other end of skin taut and pulls away the thong as it is cut. After cutting is finished the wet cord is loosely wound on a reel and hung up to dry for a day or two.

Feb. 23 (Thurs.) Cloudy a.m. Light East wind. Calm at midday. Blizzard flowing from west after 4 p.m. and continuing all night. Canada Jays very tame.

Feb. 23 (Thurs.)

around camp, continually picking at a Fox carcass hung up in a tree about 15 ft. from door. They pay very little attention to dogs, or to a man working near by, but if one makes a peculiar noise, or whistles, to attract their attention they immediately become suspicious, and fly away to neighboring trees. Boiled up all the scraps of fat, tallow, mesenteries and intestinal fat on hand, and molded several pounds of tallow in kettle. Billy bent the four spruce boards which he has worked out with adz and block plane, to form a toboggan. Thawed out the green strips until they were flexible, and tied them in place to dry. He improvised a drill out of a wire trap spring.

Feb. 24 (Fri.) Cloudy a.m. Clear at noon. Cloudy p.m. Strong west wind, and snow drifting heavily. Canada Jays around all day.

Feb. 25 (Sat.) Clear. Light west wind much colder. Fresh Marten tracks around and on top of our rack this morning. Billy set deadfall trap for same.

Feb. 25 (Sat.)
Have been suffering severely from toothache for the past week – 2nd ~~left~~ right lower molar, a decayed shell from which I lost the filling two years ago. Tooth had been swollen so that I could not bring my jaws quite together for mastication, and I have consequently had indigestion. Finally worked tooth partially loose from gums with bone scraper, and worked a deer-sinew line underneath between the two roots, and a little pulling accomplished the dental feat, and brought great relief. My protracted stay away from civilization and dietetic experiments have played havoc with several fillings, which were all in apparently good shape three years ago – a very good reason for wanting to "go out."
Feb. 26 (Sun.) Dense fog in the morning, which cleared away soon after sunrise. Cloudy a.m. Clear p.m. Warm. Canada jays around camp all day. Owl entered the hallway of our snowhouse, while we were inside, and picked up scraps very unconcernedly. A flock of Crossbills heard in the evening.

Feb. 27 (Mon.) Cloudy forenoon. Very warm

Feb. 27 (Monday).

The warmest day of the winter. Sun barely visible at intervals through clouds. Light West wind: Snow softened considerably on surface, and snow melted on surface of deerskin boots. My boots were quite wet on the outside after being out a little while. Wind blew very hard from west for about an hour, from 12m. to 1 o/p m. then moderated a little, but breezed up strong again in the afternoon, and kept it up during most of night. Very warm in afternoon and evening, snow soft enough to "pack" everywhere. Several blocks of snow melted loose and tumbled down from walls of snow house, and numerous holes were melted everywhere in roof. Billy visited traps and got his feet soaking wet. One Fox had been taken from trap by wolverine. Fresh (last night's?) Caribou tracks seen about one mile from camp. Made some needed repairs on clothing today.

Feb. 28 (Tues.) Clear morning. A little colder, enough to freeze crust on snow. Light West wind. Sky clouded up during forenoon and thick fog drifted in from West about 1 o/p m. Warm in

Feb. 28 (Tues.).
afternoon, and snow melting a little. Fog cleared away towards evening. Light snowfall in evening. Nothing in Billy's traps today, except one Raven nearly eaten up by Wolverine. Spent some time looking for nest of Canada Jays, but without success. The spruce trees are covered with thickly matted clumps of twigs, needles, &c., which closely resemble nests, and these matted branches are packed so full of snow that a nest could easily be hidden in the midst and escape close scrutiny. One Jay hopped around, chirping anxiously while I was examining one clump of trees. About five feet from the ground I found an old Robin's (?) nest half filled with small red berries (called atʻtji at by Eskimos), probably stored there by the Jay. Several times I have seen Jays pecking away at crevices in loose bark of dead spruce trees, after the manner of Chickadees.

March 1 (Wed.). Cloudy. Very light West wind. Warm. About ½ inches of snow fell during the night, and a few snowflakes were falling during the whole forenoon. We have been wondering for some time why

March 1 (Wed.)

Either Stefánsson or Tannaumirk have not returned. They have been gone twelve days now. They expected to stay three or four days long enough for T. to dig up his traps. Some one must be sick, or else they have killed plenty of Caribou, and have been caching and drying meat. Very strong west wind in evening, and during night.

March 2 (Thurs.). Clear. Rather warm. Strong west wind all day and snow drifting thickly. Wind moderated about 7 p.m. Yesterday Billy found that a wolf had sprung his set gun, and been badly wounded. Snow had covered trail, however. Cartridge stuck in chamber, and he tried to ram it out with a stick. Stick broke and stuck in rifle barrel and he spent most of yesterday and today trying to get it out. Finally he took rifle apart and burned the wood out of the barrel. Cut up another Caribou skin into babiche.

Wolf.

March 3 (Fri.). Clear forenoon. Colder. Light west wind. Cloudy p.m., and a few snowflakes falling. Warmer. Wind strong in evening. Walking in trap-line today.

March 4 (Sat.). Cloudy all day. Fairly strong East wind. Snow drifting on hill tops. Snowflakes falling during most of afternoon and evening. Finished toboggan by putting on side loops for lashing, and planing bottom. One long braided rawhide rope was found to have been half-cooked while drying, and as brittle as glass.

March 5 (Sun.). Cloudy. Strong west wind. Snow drifting. Rather cold. Wind moderated a little in evening, and sky cleared. Colder. Saw one Canada Jay near house today. Tracks of a band of 12-15 Caribou seen - going E. (last night?)

March 6 (Mon.). Clear. Very cold, the coldest day we have had since early in February. Half of tent lined with frost all day. Wind West, fairly strong in forenoon, but died down in afternoon. No Canada Jays around camp

March 6 (Mon.)

today. They have been very little in evidence for several days. A flock of seven or eight White-winged Crossbills (Loxia leucoptera) were feeding on spruce cones on trees about camp about an hour before sundown. They were very active, and would stay in one tree but a minute or two at a time. Song a low, lisping warble, much like the Redpolls (Acanthis). Killing in traps today. Billy saw fresh Marten track near camp.

March 7 (Tues.) Cloudy all day, sun faintly visible throughout day. Strong SE wind in forenoon, which shifted suddenly to NW in afternoon. Sky clear after 7 00 p.m. and wind north. Very cold all day and night. Plucked two half-matured caribou-skins. Billy is busy making a pair of deer-leg boots.

March 8 (Wed.) Clear morning. Very cold. Strong NW wind. Snow drifting thickly. I have been under the weather for the past three weeks, just

March 8 (Wed.)
able to be about, but have felt pretty well the past two days. My right arm has been practically useless for ten days, as any sudden movement or jar caused sharp pains under my right shoulder blade, very much like the pain of pleurisy. Cloudy in evening, and wind very light. Boiled a potful of wolf ribs today (from first wolf killed, a male), much better eating than the other one. Layers of white fat nearly ¾ inch thick on ribs. Skimmed two teacups of fat from top of pot after broth had cooled.

March 9 (Thurs.). Clear. Light East wind. A little warmer. Was out for some time looking for Canada Jays' nests, but saw neither nests nor birds. Saw a Red Squirrel (Sciurus hudsonius) sitting in a large Spruce tree. Ground (snow) beneath was littered with bits of bark and cone shells. Heard the Squirrel chattering noisily for some time after I left. Billy also saw a Red Squirrel in trees on little creek to Eastward. He also found the remains of a Caribou carcass at end of lake

March 9 (Thurs.).
about a mile from camp. probably one that Stefánsson wounded last month and failed to find. Many fox tracks, and one wolverine track around carcass. Fox tracks as well as wolf have been conspicuously absent around here for a couple of weeks. Billy took up all traps today, preparatory to returning to house near Dease River.

March 10 (Fri.). Clear forenoon. Rather cold. Brisk East wind. Cloudy in afternoon. Cut up a large bull Caribou skin into rope for sled lashings. Wind stronger in evening. Warmer, and a few snowflakes falling.

March 11 (Sat.). Cloudy. Rather warm. Brisk East wind. Intended to start across to house today, but wind was blowing too strong in early morning, and there was too much fog. Wind moderated in forenoon – too late to start. Pounded up all the dry sirloin meat (about a 10-lb. task); packed other dry meat, and cracked and boiled up a kettle of bones for grease. Two Canada jays around camp today.

March 11. (Sat.)
Billy went out about noon, and saw seven bull Caribou on top of ridge about ½ mi. north of camp. He killed one, horuless; no fat at all. but marrow fairly good. Hauled in meat with two dogs. Tannaumik arrived about 6 o'clock p.m. with toboggan and five dogs. Pannigabluk's best dog Tigyaklak had died. He brought note from Stefánsson saying: "My back is hurt from a fall Feb. 22, and I am not in shape to walk. Do you as see fit about every thing. Don't bring meat - we got about 28 deer. Skinned for you - 3 fawns, 1 horuless and three horned female, one horuless bull. I send babiche and wire. I suppose B. has made sticks for a sled." Tannaumik had caught 12 White Foxes more, 2 wolverines, and one wolf.
Sky cleared in evening, but wind remained strong.

March 12 (Sun.). Cloudy. Warmer. Foggy weather, with snowflakes flying, and snow drifting thickly low among trees in lee of hills. Got up at 4:45 a.m. preparing to start back early for the house, but blizzard

March 12 (Sun.)

was too thick to make travel inadvisable. On top of the divide, the storm was undoubtedly bad. Wind calmed down in afternoon, and shifted to west in evening, and sky cleared. Wind strong from west at 9 p.m. and snow drifting

March 13 (Mon). Howling blizzard from West at 3:00 a.m. and continuing all forenoon. Colder. Saw white fox about 75 yards to leeward of horse at 9:00 p.m. last night. He would hop along only a few yards, at a time, then stop to look around. Found this morning that he had carried off some small pieces of wolf meat which were lying on end of rack outside. Some time this afternoon a white fox (probably the same one) got into a steel trap which Billy had set on top of rack. The trap chain was long enough to allow the trapped fox to hang down alongside of rack, within reach of the dogs. The dogs tore off tail, one leg, and a large patch of skin from side. All this during a blinding blizzard when we could hardly see the rack 50 yards from house. Wind very little abated up to 10:00 p.m. Another fox in trap on rack.

White Fox

No

March 13 (Mon.)
about 11th p.m. It was jerked down and worried to death by the dogs, but not eaten. Wind had lowered a little

March 14 (Tues.) Clear. Very cold. Wind due North at 5.30 a.m., fairly strong. Snow drifting a little on hillside. Dismantled rack — leaving nothing but meat, and three Caribou skins — mostly solid meat — hams with bones removed and frozen into blocks of sled width, shoulders, two saddles, brisket, several hearts etc. Took on sled my four specimen Caribou, and one Wolf skin with skulls and leg bones, one bale (about 75 lbs.) of dried meat, 1 sack (about 30 lbs.) dried meat, about 15 lbs. grease, 10 lbs. pounded dried meat, tent, stove, etc.
Rather warm, with light SE wind when we started at 10th a.m. but before noon, when we were up on the higher hills, wind was blowing hard, and snow drifting thickly along ground; colder, and we could not see more than half a mile ahead. Struck old trail in afternoon, on north side of divide, and followed it for several miles, but lost

March 14 (Tues).

it shortly after sundown. My sled with three dogs, could not keep up with leading sled. About dark my dogs got out of sight going down hill, and I lost track on hard snow. After going ahead for about half an hour in thick blizzard, heard dogs howling to windward. Going up, found my sled had struck a rock, capsized and the dogs could not go ahead. Finally struck west end of lake near Stefansson's house, and reached house about 8:30 p.m. My feet and feet badly blistered by too warm boots and badly lashed snowshoes. Wind moderated quite a bit about 10:30 p.m. Sky clear. Moon full tonight.

Base Rwd

March 15 (Wed.) Clear. Very light SE wind. Rather warm in sun. Tannumirk had killed a rather light silver-gray ♂ wolf Feb. 20., under rock about 50 yds. from house. It had been shot through hips in the fall and was in very poor flesh, hair quite short. Brought him in to thaw out, also three foxes and one hornless bull Caribou skin & make into specimen (head and legs unskinned

Grey Wolf

March 15 (Wed).
Took pictures of both racks.
#34 Meat drying rack. 8 - 1/50 - 11 a.m. B.S.
#35. Meat and skin rack, with bunch of twelve Coloconi skins drying. Tannummirk on rack. 8 - 1/50 - 11 a.m. B.S.

March 16 (Thurs). Cloudy at 3 a.m. Calm. Light snow falling in forenoon. Cloudy all day. Rather warm. Light Southerly wind in evening. Winds are very variable and local just at this place, and are much deflected by high hills behind, and the crooked creek valley. Billy went several miles west yesterday to heavy timber on Dease River to set traps, saw only two Marten tracks, and no fresh Caribou tracks. Snow very deep and soft in thick woods. Stefansson says that Ptarmigan became very abundant along the creek about a week ago - thousands seen along the valley. Last month they were rather scarce here.
Skinned head, legs etc. of three fawn all light colored. Caribou
#537. Caribou ♀ jur. Feb 22 (in first winter, all antlers "velvet")
#538. ♂ Caribou jur. Feb 24. (one antler rooted.)
#539. ♂ Caribou jur. Feb. 24. 1911.

March 16 (Thurs.)
Pannigabluk finished making tent of six Caribou skins. Six skins is said to be the only proper number to use, whether skins are large or small — old Eskimo customs rules regardless of size of tent required.

March 17 (Fri.). Clear. Daylight S. wind. Warm day, snow melting in sunshine, on dark surfaces. Skins drying very quickly in sun and hung meat drying a little. Finished skinning large boneless bull Caribou, and cleaned a few bones.
#540. ♂ Caribou adult. (boneless). Feb. 25, 1911.
Billy made a trip to his traps on Dease River, and found nothing. He saw eleven Caribou, but killed none, as rifle barrel was full of ice. He saw trail of two toboggans which went down Dease River today. Heard flock of Crossbills near house.

March 18 (Sat.). Clear morning. A little colder than yesterday. Cloudy in afternoon, with about ½ an inch of snowfall in evening. Warm.
Tannaunnik caught a White Fox in trap today. Skinned the gray Wolf, and one Caribou head.

March 18 (Sat.) Gray Wolf.

L. 165 cm. T. 40 cm. H.F. 29 cm.
H.T. at Shoulder. 71 cm. Depth Chest 29 cm.
Shoulder to hip joint. 64 cm.

#544. ♂ Wolf. adult. (very old). Feb. 28, 1911.

This wolf was apparently very old, as teeth were in bad shape, several incisors lost and others worn down, canines dull, and one decayed. two molars badly decayed. He had been shot through the hips some time before, and the wound only partially healed. This wound, as well as condition of teeth, accounts for his emaciated condition. He had been seen several times around here during the winter, and either familiarity or starvation had bred contempt, as he came up within 60 yds. of the house and was eating a scrap of Caribou skin under the rack. The color of the hair is unusual here — a sort of silvery gray (white and black hairs mingled) like a "good" Cross Fox or a "poor" Silver Fox. Neither of the Eskimos had ever seen a wolf of that color, and considered the skin valueless from their standpoint. The Eskimos say that the White Wolves are old Wolves, and dark (black or yellow) are young animals. (?) Not true

Saw several Ptarmigan near house in morning.

March 19 (Sun.). Sky clear at 3.[0] a.m. but clouded a little about sunrise. Warm. Cloudy in evening. Finished skinning cow Caribou and cleaned several skulls and leg bones.

Caribou

#541. ♀ Caribou Skull (hornless in season when females and usually horned. Stefansson killed another cow at same time which was apparently hornless, but on close examination small stumps were seen projecting through skin, showing that they had been broken after growth had started. Only one other hornless cow has been killed by our party — on Horton River, Oct. 1909 — the first specimen Billy had ever seen). Feb. 24, 1911.

#542. ♀ Caribou (horned). Feb. 24, 1911.

March 20 (Mon.). Clear. Warm. Faint streak of daylight in east at 3:40 a.m. Light southerly wind. Colder in afternoon. Rather strong SW wind in evening. Finished cleaning skulls and bones and hung them up to dry outside. Also hung up Caribou skins to dry. Billy completed netting pair of snowshoes begun yesterday.

March 21 (Tues). Clear. Stiff SW wind, with considerable snow drifting. Colder. Saw one Crossbill flying over house. Cleaned skulls of two Wolverines trapped by Tannaumirk while I was at other camp — skins were made into furs.

*543. ♀ Wolverine Skull Dease River. N.W.T. Feb. 27, 1911.

*545. ♂ " " " " " March 2, 1911.

The female skull was considerably smaller, with ridge along dorsal median line of skull much lower than that of male, and posterior end of ridge not terminating in such a projecting spine. Billy and Tannaumirk took in their traps today, preparatory for our anticipated start for the Coppermine River and Coronation Gulf tomorrow. Tannaumirk caught one White Fox and a female Wolverine, the latter although apparently adult a rather small specimen.

*546. ♀ Wolverine L. 91 cm. T. 22 cm. H.F. 18 cm.

Stefansson hauled home several loads of wood. About 4:30 p.m. we saw a herd of about 300 Caribou feeding on top of the ridge, a little over a mile from camp. They were quite closely

March 21 (Tues).

bunched together, nearly all feeding with head to windward. A few stragglers from the herd were strung out along the ridge for a mile or so to the Eastward. Wind about West. Something alarmed the stragglers and they ran up to main herd. We decided that we had enough meat, and killing caribou would delay us another day. Billy went after the caribou later, and killed two young bulls (horned); said the whole herd was composed of young bulls. Neither had any fat.

March 22 (Wed). Clear. Very light East wind. Rather warm. Spent most of morning packing up sleds for start to Coppermine River. Started on trail at 12:50 p.m. (Stefansson, Billy, Kannanmit and myself) with two toboggans and eleven dogs. Took three or four days rations of fresh caribou meat, and about 50 lbs. of dried meat, and a little tallow. The new skin tent was too heavy, so we took only the thin wall tent. Took pictures: #6. Dog teams ready for start to Coppermine River. Rock in background. 8 - 50 - Bright sun. 12:45 p.m.

(296)

March 22 (Wed.)

#7. Dog teams on creek 8 – 1/50 – B.S. 1st p.m.
#8. Nathushiak ("Billy"). 8 – 1/50 – Dull S. 3rd p.m.
Course – up creek to East, about 1/2 mile from camp, then up across a series of low, rocky ridges, keeping course about 20° W. Magn. for about 8 miles, keeping on west side of largest mountain in sight from starting point (on top of hill). Remainder of day – about 30° – 35° W. Magn.
Fresh musk-ox signs (of the winter before) were seen near this mountain last summer by Eskimos.
Crossed several small lakes, and one about 3/4 mi. long before passing mountain, then another larger lake (about 2 mi. long). West side of large lake fringed with spruce. Large area of willow covered flats on north side. Camped at 6th p.m. (just at Sunset), making snow wall, and throwing tent roof over top. Conspicuous small, high hill (like an island), with dense growth of spruce on top, visible 2–3 miles to NE. of our camp, across willow-flats. Forgot coal oil can, and Stefansson went back for it (after travelling about a mile); he came up about an hour after we started making camp. Travelled well today, making about 12–13 miles. No signs of Caribou seen. Fresh tracks of white fox.

March 23 (Thurs.) Clear morning. Brisk wind North East.) at 6.00 a.m. On trail at 9.40 a.m. Wind rather strong, but snow not drifting much. Sun partially obscured by clouds. Course about 15° W Magn. towards low pass across the mountains from Lake Immaérnirk, to Dismal Lakes. Along a broad low valley with much small willow growth, apparently level, but with occasional small creek gullies. Passed by a remarkable conspicuous cut bank a hill on East side, about 125 ft high, with steeply sloping sides, and dense growth of spruce on top and bottom. Saw eight Caribou about noon, on flat land, slowly moving east, and feeding. Billy went after them without success. Comparatively few tracks of two large herds going East. Wind calmed for a few minutes about 12.30 p.m. shifted to NNE, and strengthened, snow drifting thickly in our faces. Camped about 3.00 p.m. in spruce grove on East side. Travelled 8–9 mi. Today. Froze face slightly a few times while facing wind — not cold, but snow kept melting on face. Billy shot at White Fox in the morning, but did not hit it.

Caribou

Fox

March 24 (Fri.). Clear. Cold. Fairly strong
North wind, snow drifting slightly. Wind SE in afternoon
Started up slope for pass at 10^h a.m. bearing 15° W. mag. Reached
summit at 12 M. about One A few small sticks near summit
Soon reached deep zigzag rocky creek gully,
and followed same westward to a point about
½ mi. from west end of Dismal Lake. Sparse
spruce sticks for about ½ mi. up creek, and a
small dense grove near mouth of creek.
A lower pass to southwest, from end of lake
with valley well wooded as far as I could see.
Reached Dismal Lake (Ta hit'ó pik) at 1 p.m.
about 1 o/p.m. (4 mi. from last camp.), and trav-
elled until 7.00 p.m. making about 18 mi. on lake,
first NE, then East (about 25 mi. today). No wood
after leaving west end of lake. Made snow
house in evening. Tracks of two large bands
of Caribou seen on lake, one going East, one west,
also old wolf tracks. Considerable glare ice
west of bend of lake to SW. end of that mostly
snow covered.

Kendall River

March 25 (Sat). Clear - Cold - Fairly strong East wind - On trail 8½ a.m. reaching "Narrows" about 10½ a.m. (about 4 mi.). Narrows about one mile long, from 100 to 200 yds wide, with many right angle turns. High hills on both sides. Numerous rows of piled stones (Inuit Igit) along shores and slope on both sides. — two or three stones, or a bunch of turf placed on top of a rock, two or three feet high, to resemble men. — Caribou are driven along these rows of dummies, and shot by bowmen where the rows converge, or speared from Kayaks if they take to the water. Stefansson found two Husky huts (6-7 people) camped at Narrows last August. , while main body of Husties had gone south. Lake widens and bends south East from Narrows, about 7 miles to another narrow place, with several channels between willow-grown islands (fordable in summer — about waist deep. First trees (spruce) on north side, in a few little ravines, about 3 miles SE of the Narrows. Dense grove of large spruce seen at the Willow Islands. Left lake about 3½ miles from

March 25 (Sat)

Runners, and struck out, 60° East (mag) across a low series of ridges, between high mountains and lake. Seven Caribou seen at a distance NW & S. side of lake. Passed lake about 1 mi. long (probably, about 2 mi. East and North of Desmet Lake), steep banks, wooded; nearly whole surface recently flooded. Got drinking water, yellowish (alkaline?) by scooping a hole in snow at edge of lake. Followed base of high bluffs eastward about 8 miles. (about 20 mi. today). Small, scattered spruce at intervals. Camped at 4 p.m. in small isolated grove of rather large spruce about ½ mi. from mountains, and about 5 miles north of Kendall River (the eastern outlet of Desmet Lake). Stefansson scouted to southward parallel to our course after leaving lake, and saw numerous small bands of Caribou at a distance, feeding NW low land, all south of Kendall River. Made ten Exposures showing detail of these mounds. 8 — 1/100 — 3.5 — 10 am

(299) * 9. Stone Caribou drive,

(300) * 10 do. (at a greater distance, showing ziggedy arrangement of Cairns. Several large dead spruce at Camp — One measured 48 ft. 6 in. in circ. 3 ft. above ground.

March 25 (Sat.)
above bench roots, and 5 ft. in ~~diameter~~ Circ 8 ft. above ground. Spruce trees here mostly straight grained, not twisted spirally as is common in this region.

March 26 (Sun.) Clear a.m. Light NE wind. Calm from 1 to 4 p.m. Cloudy after 2 or 3 p.m. Light East wind in evening, and light snowfall. Warm. Billy and I started SW. at 10 a.m. and hunted SW to Kendall River. Sighted several bands (probably 150 seen in aggregate, in small bands, feeding on comparatively level, rocky land between tree line on south side of river and base of mountains. Caribou very difficult to see among the scattered rocks, particularly when lying down. Wind died down, and we had difficulty in approaching Caribou. Billy and I separated, and by crawling about 400 yds. I got within 250 yds. of nine Caribou and killed two cows. Neither had much back fat, but both had considerable intestinal and kidney fat. Hair of ~~are~~ cow very loose (as here after death, and I plucked one side bare

Mar 26 (Sun.)
in a few handsful. Measurements:
♀ Cariboo (adult) L. 71½ in. Ht. 37¾. Depth chest 10
Shoulder to hip joint 33. ♀ Cariboo ad. L. 70 in.
Ht. 37½. Dc. 17. Shoulder to hip. 36 in.
Embryos in utero about size of house cat.
Started home about 6 p.m., stopped 40 mins. on river
and made fire on ice to try to get water, but
fire melted hole through top ice (about 2 in),
and water ran out. Second layer of ice about
6 to 8 inches below upper level. Last way in
fog and snow, and did not reach camp
until 10 p.m. Tannamuit slightly snowblind
today.

March 27 (Mon.). Cloudy, foggy, hazy morning.
Billy and Tannamuit went to haul meat home.
I am nearly snowblind today. Eyes began
to smart about noon yesterday, and I wore
goggles for a little while. first time. Eyes have been a little
sore for last three evenings, and last night
felt as if there were smoke in them. Slept little
during night. This morning very painful. From
light in rather dark tent; wore goggles indoors
and washed eyes with boracic acid and
cream. Slightly improved in evening

March 27 (Mon.)

Billy and Tannaumik returned about 9 a.m. and reported that they had been unable to find meat cache made yesterday. Said more Caribou were seen than yesterday - mostly to Eastward - Had to eat a little dry meat brought.

March 28 (Tues.) Clear morning. Warm - Light wind. Hazy p.m. Clear evening. Stefánsson, Billy and Tannaumik started in morning for meat, also to try to get a couple more Caribou to make a meat cache for our return trip. My eyes pain little today, but feel very weak, and a little direct sunlight hurts them. Party returned in evening with three Caribou on sleds, having found meat cache of two Caribou. Stefánsson had killed two cow Caribou and one found, and wounded another, also shot a ♂ White Wolf. Billy caught a White Fox in trap at meat cache. Caribou more numerous than before, and apparently moving slowly eastward. Heard small birds (Redpolls & Ptarmigan) around camp.

Caribou

Caribou

Fox, Wolf

March 29 (Wed.) Clear until 2 p.m. Warm. No wind all day. Cloudy evening, with a few

March 29 (Wed).

snowflakes flying. Tannaumik and I went to haul meat, and brought home two carcasses, but could not find Caribou supposed to have been wounded yesterday. Foxes had eaten rump and part of back meat of one cow. One White Fox in trap at fawn's meat, and another at place where Caribou was cut up yesterday. Two Large bands (50 or more in each) feeding along mountain side to south, moving Eastward. Few Caribou kept working towards us, and came within 60 yds. of us while we were skinning, but as we have plenty of meat, I did not go after them. Saw one Rock Ptarmigan among rocks on barren ground. Many Ptarmigan tracks in brush along Kendall River. Three Ravens seen around scene of Caribou killing. Many fox tracks and one Wolverine track.

Bed of timber (Black Spruce) much wider and thicker on north side of river (1 to 1½ mi. wide) than on south side, where belt varies from a few rods to about ¼ or ⅜ mi. wide. Growth of trees thicker to Southeastward. Paced Kendall River at 60 paces wide — could not tell exactly where banks of river began on account of drifted snow.

March 29 (Wed).

Billy made an upright 4-post rack cache for meat at camp. — Took five pictures

(261) #1. Camp 5 mi. W. of Kendall River. 8-$\frac{1}{100}$-B.S. 9³⁰ a.m.

(262) #2. Kendall River Valley, from south side, looking NNW 8-$\frac{1}{100}$-B.S. 12 m.

(263) #3. Do. (looking East). 8-$\frac{1}{100}$-B.S. 12 m.

(264) #4. White Fox in trap (at 10 ft.). 8-$\frac{1}{100}$-B.S. 2⁰⁵ p.m.

(265) #5. Do (at 6 ft.) 8-$\frac{1}{100}$-B.S. 2⁰⁵ p.m.

Skinned ♂ White Wolf in the field, for scientific specimen. It had been covered with snow, and unfrozen, except head, feet and tail.

wolf.

* 547. ♂ Wolf (white). L. 166.5 Cm. T. 48 Cm. ~~Ht.~~ 29.5 Cm. 10 3/4 in.

March 30 (Thurs). Clear a.m. Warm: No wind. Cloudy p.m. light northerly wind after 3³⁰ p.m. On trail 11:²⁰ a.m. after fixing up cache, and setting traps to protect it. — Travelled East (true) about one mile, when a turn around the hills brought the valley of Coppermine River into view. Thickly wooded on both sides here. Eastern side steeper. Belt of trees about 1/2 mi wide on west side at angle. Snow deep and soft. Saw large flock of Redpolls (Acanthis) here. Descended a little creek-valley and reached

Coppermine River

March 30 (Thurs).

Coppermine River at 1:30 p.m. Ice on river very rough, in places resembling sea ice, great blocks and slabs piled up, or standing on edge. A continuous bench or shelf of ice along sides showed that river must have fallen 8 or 10 ft. since first freeze-up. Some broken-up ice blocks were 10-12 inches thick. Found fairly smooth travelling on snow just outside of upper (outer) blocks of ice. Crossed river 2-3 miles further down (river running about East here), and went about 2 miles along top of bluff, passing one of Stef's old summer camps and caribou-drying stage. Small grove of large trees on top of bluff here. Descended to river again, finding fairly smooth ice, at point where Stefansson's party rafted across last fall. Current here said to be slower than at any other place between here and mouth of river. Along here (where river flows East), timber is rather heavy on left (north) bank; very few trees on right (south) bank. Stopped a little while to look for cache which Stefansson made after fording river last summer. Found two traps, but Wolverines had

March 30 (Thurs).

Eaten most of the legs of two pairs of pants — one woolen, one cotton, but had not eaten the Caribou-skin belt-straps; also but stringy and tasteless Caribou back-sinews, hung on cord between two trees. A small dried meat cache under heavy boulders apparently untouched. A few Wolverine tracks, many Fox tracks, and Arctic Hare tracks along river. Saw one Weasel track. Took picture

(267) #6. Camp and meat rack. Near Kendall R. 8 — 1/50 — D.S. 10.4

(267) #7. Deadfall trap 8 — 1/100 — S.S. 11 a.m.

(268) #8. Indian lodge frames — near mouth of creek, West side Coppermine River 8 — 1/50 — DS. 1 p.m.

(269) #9. Coppermine River, looking East. 8 — 1/100 — DS. 1.35 p.m.

(270) #10. Ice blocks along sides of Coppermine River (self alongside, to show comparative size. 11 — 1/25 — S.S. 2:00 p.m.

Wolverine

Weasel tracks

River at apparently narrowest place 162 paces (pace = 38 in.²) — approximately 135 yds. wide.

March 31 (Fri.) Hazy sunshine all day. Stiff NW wind, and snow drifting. Cold. Billy and Tannaminik each set deadfall at last night's camp.

March 31 (Fri.)
On trail 10:40 a.m. Ice fairly smooth for first 2-3 miles, then as we rounded big bend of river ½ NE, ice became rougher. Scared up flock of 25-30 Ptarmigan from thick clump of spruce on left bank. One Raven seen. Passed mouth of large creek 3:30 p.m. apparently as large as Kendall River, coming in from east. Very heavy spruce woods (heaviest since striking Coppermine), along creek and two of its lateral branches. McNeill, Hornby, Mackinlay, MacCallum, and six Indians camped about ½ mi. up this creek in April, 1909 - the furthest point north reached by them. From this creek they reached M. & H's house at east end of Great Bear Lake in "one sleep" (two days traveling), leaving Coppermine some distance south of Kendall River.

In some places, apparently over shoals, the blocks of ice were piled up in irregular ridges and islands extending all the way across the river, giving the effect of scarce pressure ridges etc. making it practically impassable for sled. In other places, great blocks were piled up in vertical walls 10-12 ft. along river side. In some places surface of ice

March 31 (Fri.).

was planed smooth, like the edge of landfast ocean ice-floe. Just after turning big bend below Melville Creek, ice exceedingly rough, and with difficulty we found a passage over steep snowbanks under high banks on left side. Looks like rapid but S. says current in summer not swift here, and many stones and boulders project above surface of water. Smooth ice for a mile or two below here. Banks of river on both sides below here, steep 45° slopes of large and small round stones and boulders, 15 to 40 ft. high. Boulders said not to extend far back from river. About 4-5 miles below Melville Creek, river again very rough, about where Musk-ox Rapids should be. Camped in thick clump of spruce on hill, left (west) bank, at 6:40 p.m. Travelled about 15 miles. Stefansson saw a Wolverine running up hillside, west of big bend, and when he went up creek to photograph 11-2 H:S Amp, a Wolverine followed his trail up stream 200-300 yds. but was frightened away as he returned. Made several exposures, showing typical ice formation.

March 31 (Fri.).

(271) #1. Ice ridges along shore. 50 ft. Coppermine. 8 - 1/50 - D.S. 1:30 pm

(72) #2. do. (at 100 ft.) Sleds in foreground. 8 - 1/50 - D.S. "

(73) #3. " (at 25 ft.) Kattleship " 11 - 1/25 - DS "

(74) #4. do. (at 1 of 8 ft.) Two yds. further on. 8 - 1/50 " 2 pm.
~~Mouth of Melville Creek. (V.S.)~~

(75) #5. Coppermine River, showing "sea ice effect". 8 - 1/100 - DS

(76) #6. Mouth of "Melville Creek." (V.S.). 8 - 1/25 - DS 3:30 pm

(277) #7. Melville & Hornby's lodge (V.S.) 8 - 1/25 - D.S 4:00 pm.

Stefansson paced river twice, 152 paces and 253 paces. We paced another spot together, 159 paces. Just north of big bend to north, river in places about 500 yds. wide

April 1 (Sat.). Clear, bright morning. Warmer. Wind NW in afternoon, on uplands. Colder. Light SE wind. Weather became hazy, and foggy on mountain tops about 9:00 a.m. Cleared up in afternoon, but slight fog came up again about 5:30 p.m. B. and T. set two deadfalls. On trail 10:50 a.m. Crossed river, and crossed range of high, stony hills along river. Followed zigzag path through ravines, up some 45° grades, reaching hilltops about 12:30 pm. Descended steep hill on East side, and had good travelling for about 4 miles, along a lake

April 1 (Sat.).

about ½ mi. long, and through a broad, comparatively level valley, sloping east to higher mountains (about 3 mi. from river bank ridges). This is one of a chain of narrow, deep, lake connected by a stream running into Coppermine some distance north. Caribou
Saw numerous Caribou tracks (last night's) all going East, and some fresh Wolf tracks. About 1 o'clock p.m. sighted large band of Caribou about one mile ahead. Stefánsson and Billy went after them. Billy stalked the bunch, but missed at close range. Herd scattered going east on uplands. Stefánsson killed a young bull, one of a pair which wandered up to where he was lying down on hillside. He brought sleds up, skinned the Caribou and loaded it on sled. V.S. went up on top of hills to eastward, saw great numbers of Caribou, and killed three more — young bull, young cow, and
All ages, sexes and sizes seen. Billy killed a horned old bull. T. and I went ahead and made Camp at 5:15, having travelled only about 5 miles. Camp in a little hollow among the hills, on a good-sized creek, running SW. (Creek exleads

* Called "Sled-making River" because Huskies habitually make their sleds here.

April 1 (Sat.)

5-6 miles up-country beyond here, and is forded with difficulty in summer (4.5)* Small grove of very large tall straight Spruce trees (the last grove of good trees about ten miles from northern limit of trees). Some large willows along bed of creek.

Caribou seen today with two exceptions were all very light-colored, with very light brown legs (almost white). Head looks shorter than Great Bear Lake Caribou, with a fullness or convexity between forehead and nose, resembling in some degree the profile of a Rabbit. (278)* S. from GE. Spruce. Near northern limit 8-1/00-BS 123° p.m. (279)* 9 ds. ab 100 ft. To show comp. syn. V.S. in foreground a.

April 2 (Sun.). Hazy sunshine in morning. Rather strong NW wind. Very cold. Clear in afternoon. No wind after sundown. Tannaminik wind after last Caribou left and last night. Wolves had eaten most of unskinned Caribou, leaving head (minus lower jaw and tongue), ribs of one side, and some of leg bones. Billy made log meat cache. Prepared skins and bones of young bull killed yesterday.

* 548. ♀ Caribou (whitish). Coppermine R. 4-2-1911.

Photo * 10. Log meat cache on ground. 8-1/50-BS. 0° p.m. VS. Head Redpoll (?) near camp.

April 2 (Sun)

Caribou

Saw Caribou in large, scattered bands to SW, NW (about 3/4 mi. away), NE (about 1 mi away); those to NW were slowly moving southward, feeding, those to NE apparently moving East.

April 3 (Mon.) Clear. Rather strong SE wind for half an hour. Raven croaking around Camp in morning. Saw pair roughed-out sled-runners lying on top of hill about 100 yds from camp. Propped up by stake alongside them. Old Husky camp-site about 100 yds from sleds, made summer before last by. Sled runners about 6 in. high, 1 1/2 in. thick, not curved high in front, about like ordinary American bob-sled runner.

Took pictures of same. #1. (25) Sled runners. 8 - 1/100 - B.S. 10:30 a.m.

#2. (25 1/2) Gorge on Coppermine R. (looking N.) at Stefansson 2nd camp among trees, 1910. 8 - 1/100 - B.S. 1:30 p.m.

On trail at 11:10 a.m., after fixing up log cache and two deadfall traps. Wind increasing all the time, but fair - about 25 mi. per hr. and snow drifting thickly along ground. Large band of Caribou seen to NE, about 1 mile and of where they were last night. Course about north over low rolling hills, passing E end of rough broken

April 3 (Mon.)

rocky ridge, extending in a southeasterly direction. River makes a sharp bend to Eastward for about ½ mile, passing through vertical rock walls in places. A few narrow streaks of open black water on river in gorge, near East bank. Otherwise ice smooth – a rapid river. We had to turn east here, and cross a high ridge, as the bed bench we were travelling on terminated here. Found another valley on east side, parallel to river. Saw two Caribou crossing lake about 500 yds away, going south. Both were very light colored, one apparently white, showing up brightly on snow background. More Caribou seen on hills to East. A little further on S. climbed a small hill to look around, and started up three Caribou about 100 yds on other side. They dashed at full speed, and ran a half circle around us, stopping then for a minute to look, about 60 yds. away, then dashed off Eastward. Caribou

We did not care to shoot today, as we have all the meat we can use. Crossed a few old Caribou tracks today, but not many fresh ones. No Caribou seen on west side of river. Stefansson says that last summer few were seen west of river, occasionally seen swimming river, but seldom left the river's side.

April 3 (Mon.).
Camped at 4:50 p.m. near most northerly clump of trees on east bank of Coppermine. About half of trees dead; some large (10 in diam.) near food, but rapidly tapering off; no trees over 12 ft. high. Camped near head of little creek about ½ mi. long. Hills covered with rounded boulders. Creek runs into deep narrow gorge, with perpendicular walls. Very thick layers of gray slate in walls of gorge, overlain by layers of stones and boulders. Tree is a clump of spruce on west bank about ½ mile further north than this. Stefansson found a few isolated little sapling spruce about ¼ mi. further north on this side of river. Made snow house with cloth roof in lee of little steep hill. Valley of creek full of drifting snow.

April 4 (Tues.) Cloudy at 4:30 a.m. Wind SE, less strong than yesterday. Light snow falling. On trail at 8:30 a.m. and reached Stefansson's sled cache at 11:15 a.m. where he was stopped by too much running water June 9 & 10. Foxes had rummaged stuff, but everything packed in Malted Milk boxes and large cans were in good shape. About 2 mi. N. of camp, saw a band of about thirty

Apr. 4 (Tues.).

Caribou huddled together on ice of small lake about 600 yds. away. They moved off to E. as soon as we passed to windward. Saw another band of 15-20 about 2 mi further on (about ⅔ mi. South of Bloody Falls), feeding on flat upland. We passed within 400 yds. of them, without being seen, as snow was falling thickly, and wind was blowing a gale. Left sled cache at 1:20 p.m. taking sled and some trade goods, and leaving one toboggan, and reached entrance of ramparts of Bloody Falls at 3:45 p.m. A large creek enters from East just above Bloody Falls with some very steep mountain-like ridges of light gray clay near mouth. Ca. 150-200 ft. high. A large almost vertical cliff of stratified mud or light gray clay on left (west) bank of river just above Falls superimposed on the face of the black basalt formation of ramparts. Ramparts about ¼ mile long, not really a "waterfall" but a long rapid. A very few narrow stretches of open water seen in bottom of creek-like depression in middle of river, at least 12 ft. below level of shore ice, which sloped down toward center. River not over 75 yds in gorge, but widens out to at least 500 yds. after leaving ramparts. Banks below falls are a series of steep gray clay hills, some with willows on top.

April 4 (Tues).

Smooth ice below falls, for 2-3 miles (at least). Left river where first large creek valley enters from N; at point where river turns East. Left river at 5:00 p.m. and travelled NW about ½ mi. up a gradual slope then kept on a little E. of hill (true) until 9:30 p.m. when we reached ice of Coronation Gulf, a little East of mouth of Richardson River. Travelled about 10 mi. after leaving river. Country rolling, hilly with a few low, stony ridges. Crossed a large deep creek valley three times (perhaps two creeks). By much searching found a few water logged logs spruce sticks, and numerous nests of small willow duff buried under snow on coast. Fire burned slowly and we did not finish supper and turn in until 2:30 a.m. Wind SW after 9:00 a.m., lowered in afternoon almost calm from 8:00 to 11:00 p.m. Glowing light from NW after 11 p.m., pretty stormy after midnight. Foggy sunshine at intervals all day. Clear evening. Warm.

Photos. (253) #3. Stefansson's sled track. (Melted milk boxes much in evidence 8 - 1/50 - 11:15 a.m. Dull sunshine

(254) #4. Mud cliff ½ mi. south of Bloody Fall. 8 - 1/50 - DS. 2:30 p.m.

(255) #5. South entrance Bloody Fall. 11 - 1/50. Cl-Sun. 3:20 p.m.

April 4 (Tues).

(558) #6. Entrance to first bend. Ramparts. Bloody Fall.
16 - 1/5. Cloudy. 3:45 p.m. Black basalt cliffs

(557) #7. Lower (northern) entrance Bloody Falls
16 - 1/6. Cloudy. 4:15 p.m. Showing high rock gateway, with broad river and high hills to north, showing through gap.
Saw 1 few Ptarmigan on grassy upland.

April 5th (Wed). Hazy sunshine in forenoon. Light NW wind. Several islands plainly visible off shore. Made ready to start off shortly afterpoon, but wind increased steadily, and snow was drifting in such blinding clouds, that we could scarcely see 100 yds. by the time sleds were loaded. Decided to make Camp again ashore, as there was little chance of finding Inuit in such weather. By carefully searching the shore for half a mile on either side of camp, picked up Enough wood for another night. Found an old upright post set in cleft of rocks near waters edge - probably relic of white men, as Eskimos here use no boats. Shore barren - large, and small fragments of rock, everywhere, and beds of rock in place at waters Edge in places.

April 6 (Thurs.) Hazy sun in morning. Clear afternoon and evening. Wind strong NW. in forenoon, and snow drifting thickly along ground until about 1 pm. Islands plainly in sight N and E. when we started 11:30 a.m. Kept pretty straight course a little N of East thru. all day. along north side of a chain of small islands none over a mile long, and about ¼ mi wide. Islands vary in length, but are pretty uniform in appearance — a precipitous vitrical cliff of black rock (basalt?) facing to S or SW, and land sloping gradually down to sea level on north side. Northern slopes strewn with scattered broken rocks, and some rounded boulders. Abt 3:30 pm (after travelling 3½ hrs), we came upon a deserted village of Eskimo snow houses, at the edge of ice in a little cove on west side of large rocky island. Twelve huts were placed close together in a slightly curved line, all long deserted, and half-buried in snow.

(258) 8. Deserted Snow-house village. 11-1/10-BS. 3:30 pm Prehist.

No tracks visible leading to or from village. A few old Caribou tracks around houses.

April 6 (Thurs).
and about ½ mi. further east fresh tracks (today's) of a small band of Caribou coming from island and striking north across the ice (no land in sight from sea level). Caribou tracks (both old and fresh) seen in small numbers later. Crossed very old sledtrack about 4 pm crossing chain of islands SE–NW. Camped at 6:45 p.m. (travelling about 15 mi. today). On North side of rocky barren island. A few sticks of dry driftwood in a little cove. One freshly cut stick, and man's track nearby (3 mo. old?).

Stefansson went on S side of large island with snow houses, and found that the conspicuous black cliff was underlain by a sharply distinct layer of gray stone (limestone?).

Warm in afternoon. Cold after sundown.

April 7 (Fri.). Clear a.m. Warm. Light SW wind all day. Hazy fog in late afternoon. Colder. On track 11:20 a.m. and proceeded eastward along north side of chain of islands. Camped at 5:50 p.m., finding a little wood. Found part of old broken sled, also old sledtrack along side of island. After leaving islands where we camped last night crossed 3–4 mi. to high, block, precipitous

April 7 (Fri.).
island. The western end of another chain, the last chain of islands running nearly parallel about 3 mi. further south. Took two pictures of this island (259) #9. Western face of island 8 - 1/100 - D.S. hazy 2 p.m. (260) #10. ds. from NW. 8 - 1/100 - D.S. 2:30 p.m.
SW cliff of island vertical, with heap of talus extending about half way up side (latter snow-covered). A stratum of gray stone underneath the black vertical pillars of basalt(?), the gray stratum dipping down about 15° toward northward. S.S. Jamison kept along south side of islands during day, keeping lookout from headlands. also collected geological specimens.

April 8 (Sat.). Clear morning. Very light SE wind. Quite warm at midday, but a little colder than yesterday. On trail 10:45 a.m. to 4:45 p.m.. Course East about 8-10 miles. Saw two Ugyuk (Great Bearded Seals) lying on top of ice close together, about 2:45 p.m. Billy stalked them for about an hour, slowly crawling up a few yards at a time whenever the seals napped. One was very wakeful and kept lifting his head to look around every few minutes. Billy fired at about 10 yds. and wounded one slightly, and both plunged

Bearded Seal

April 8 (Sat.).
into the hole. Hole in ice about 2½ ft. in diameter. Snow around hole water-splashed and melted where seals had been lying. Sides of hole much claw-marked. Saw two Ravens here. One alighted near Billy while he was stalking seals. Saw old Sled track shortly after leaving Camp. A little wood on rocks at camp site. Most large pieces of wood on all islands have been cut and hacked by men in time past. Islands same conformation as before. Another chain, more scattered lying to north of us. Cold after sundown. Clear. ~~1~~ High ice called. Billy's temp. 8 - ½ - B.S. (231)

April 9 (Sun.). Clear & Cold. Light NW wind shifting to N. about 5 p.m. On trail 9.45 a.m. heading for east end of high black cliff about 15° E. of N. Also. About 2.15 p.m. (after 4½ hrs. travelling), struck a sled trail going East — one sled with two dogs and four people. Followed trail East from 3.30 to 7.0 p.m. and found a snowhouse near northwest point of high island. Island unusual formation precipitous on all sides; another chain of islands about half a mile north — precipitous on Southern ends. Snowhouse had been used earlier in the

April 9 (Sun.) (232) #2. Stefánsson. with beard full of icicles 8 - 1/50 - Half hr. before sundown 6.15 pm

winter by people travelling west, and now was reoccupied for one night. People seemed to have food in plenty, as two large Chunks of frozen seal's blood lay on ground outside, and a small amount of blubber inside. We moved into snow-house for the night, patching up the large hole in one side, made in order to facilitate removal of stuff when breaking camp.; the door is too small and low down. Closed up door with block of snow after Primus cooking stove got to burning. Tea pot boiled and was taken off, also pan of grease melted, and we started to cook supper. Tried to light candle, but it sputtered and went out. Attributed it to dampness, but finally decided it was foul air. Punched a little hole in wall, which did not improve matters much. Home seemed a little close but nobody noticed any discomfort except a little smarting of eyes. I felt a slight constriction around forehead. Soon Tannaumik lay back, and we heard a series of peculiar stifled breaths, almost like snoring. S. asked me to see if he was asleep. I felt of his face, and said he was asleep, then collapsed myself. S. and Billy were just able to knock the door down and stagger outside.

April 9 (Sun).

In a few minutes the fresh air rushing in revived me, and I sat up. Remember feeling mildly surprised at seeing S. sitting outside the door, then staggered out myself. Felt dizzy and legs were unaccountably weak. Tried to inhale deeply, and walk about, but soon fell down. Tannaminut soon revived and crawled out of house, and wandered about at random for some time apparently out of his head. Billy stood leaning against sled, and groaning. Night was very cold (at least zero weather) and we soon began to shiver violently. S. dragged the sleeping bags out of house, and we all crawled into them, with our clothes on, and lay on the snow for half an hour or an hour, until we felt warm and stronger. Got Primus stove going, and made strong tea. All felt a slight headache for some time, but after eating and drinking, were feeling well again by 10 a.m. Turned in about 2 or 3 a.m. but could not sleep for sometime.

Saw tracks of Fox and Wolf near camp.

Billy said that once, in Alaska, he and

April 9 (Sun).
another man was buried by snow in a blizzard which covered their dome-shaped tent. When they realized what was the matter, they had barely strength enough to break out, and Billy fell fainting outside.

April 10 (Mon). Clear. Cold. Brisk N.W wind, drifting snow along the ground. Up rather late, but nobody the worse for last night's experience except Tannaumik, who had a headache all day. On trail 11:45 a.m. and kept following sled track steadily (course a little North of East). Sighted people at 5 p.m. and reached a village of snow-houses, 8 of them deserted. Village on ice 3+ mi. from nearest islands; visible 2-3 miles away on account of skins &c. hung up on poles outside. A dog. We were sighted when about half a mile away, and the people assembled in a crowd in front of houses. We halted sleds about 200 yds away, and Billy advanced alone, holding up both hands. One man advanced

April 10 (Mon.).

to meet him, also holding up his hands, as did we and the people on the other side. After the spokesmen had passed a few words, all the people came running to meet us, holding up their empty hands until within a few yards. Stefansson, Billy and Tannaumut had seen at least two of the people, and summer and all had heard of us. Only one adult man was at home, the others being off sealing. We were offered a large vacant warehouse; it was repaired, the people helped us unload stuff, installed a stove Kodlik lamps, with a quantity of blubber, and we were soon comfortable. People here are catching all the seals they need (by spearing through the ice). Another group, of eight houses said to be camped one day's journey further east, and another group about two days west. The little schooner "Teddy Bear" is said to be wintering in mouth of a little creek just east of the Coppermine River. Some of these people have been there & trade this winter

April 11. (Tues.). Clear. Cold. Light Easterly wind. Everybody at home in village today. Stefánsson did brisk trading for Ethnological specimens — clothing, implements, etc. People here all have a certain number of iron implements, but had little desire to trade for other than articles made of iron. Cloth garments were also in demand. Two cotton snow shirts brought good Canbou skin, men's coats. Cephalic measurements were secured of most of the people — about 20 in all. Made a number of photographic Exposures. Nobody made any objection to either measurements or photographing. One man seemed to feel slighted because I had not photographed him. Do not think any of them knew what the operation really was.

~~1. Mañoyuña. Woman. Upper Rae River.~~

2. Sled. Earth-shod iced runners buried in snow. 8 - 1/50 - Bright Sunshine 10th a.m.

3. Snow house village. 8 - 1/50 - B.S. 10th a.m.

4. Mañoyuña. Woman, about 30. Snow Upper Rae River. 8 - 1/50 B.S.

5. Ai nahirik. Old woman, 40+. Upper Rae do

April 11 (Tues.) Umiñ-mâktok:

237 7. Niaktoplik. Girl 9-10yrs 11.3-$\frac{1}{10}$-B.S. 11 a.m.

238 8. I-hjú'matuk. Little girl, about 5 yrs. (daughter of Ai'nauyak, wife of Kaiaitok). In full dress costume, duplicate of grown woman's dress. Front. 11.3-$\frac{1}{10}$-B.S. 11 a.m.

239 9. do. Rear view. (Show long tailed coat).

240 10. do Side. To show size of hood, boots etc

241 1. Girl. From rear. 8-$\frac{1}{50}$-Dull sun. 12 n.

242 2. Nauyaiñak (the footless man) in full costume Rae Ryai. Side Front view. 8-$\frac{1}{10}$-B.S. 4 p.m. This man's feet frozen off a little in front of instep. Frozen in youth, in house on ice, near Cape Kendall, during a period of starvation when many people died. He "packed" a kaiak on his back from Coronation Gulf to Gt. Bear L. Had summered for caribou hunting.

243 3. do. Front view. 244 4. do. Rear view

245 5. Kopaiña (boy, abt 10 yrs) son of Ivaluk and Kaiorianna (boy, about 4 yrs). 8-$\frac{1}{10}$-B.S. 4 p.m.

246 6. Avâlluk Akuliak. Old woman. 8-$\frac{1}{10}$-B.S. 4 p.m.

247 7. Ivaruk Pallirk. Man about 40. 8-$\frac{1}{10}$-BS. 4 p.m.

April 11 (Tues.)

*8. (248) Man, woman and child. Front rear. 8-two-DS. 4 p.m.

*9. (249) Kaiak (Ivailuk's property frame. 8-two-BS. 5 p.m.

*10. (250) Kokaiark. (Man) Kojlaklak 8-two-B.S. 5½ p.m.

*11. Aisanayak. Woman. 8-two-

(251) This is best-dressed woman in village, in full costume. Front.

(252) do. Rear. (253) 3. Side. do.

*12. (249) Nia Koptak. Man. Publar-mint. 35-40. 8-two-BS. 5 p.m.

Measured Ivaluk's Kaiak (the only one in the village: Length 6.38 meters. Beam .85 M. Depth .17 M. Manhole (length .41 M, breadth .45 M.)

Measurements of three sleds:

	I.	II.	III.
Length.	3,08 Meter.	3.60	2.51
Width (outside runners).	.575 M.	.595	.555
Height.	.32	.275	.27
Cross-bars extend beyond sides runners.	.045	.05	.06
Thickness of wooden runners (not shoeing)	.065	.068	.06

One other sled in village (about same size as two largest (I–II), too deeply buried in snow to measure. Sleds not in use have lower part of runners buried in snow

April 11. (Tues).

To prevent sunshine from melting or loosening the shoeing of frozen mud. The sled shoeing is about twice as wide as wooden runner, and somewhat flattened on bottom.

Bought a small pipe from Nia Kop tak, made from the soft stone used for kettles and lamps. Made in imitation of ordinary whiteman pipe bowl, with cambou bone stem. Stone from Pubfairmiut - near mouth of river south of here. None of people here use tobacco. Niakoptak had apparently seen smokers, and had smoked the bark of a small, willow-like shrub (not Ok pik) which grows on mainland south of here. Pair two needles for pipe.

April 12 (Wed.). Strong NE wind all day and snow drifting thickly. Sun visible, but foggy. Stefansson had decided to make trip to village east of here today, but people here suggested that a messenger go from here to inform the other people that we were here, and get them to come here. A young man named

April 12 (Wed.)

Kokeark started out at 8:30 a.m. in face of storm (although weather not very cold). Did returned in afternoon, not having seen people. He had followed the latest sled trail going East, but latter had not gone to village, and Kokeark could not find village in blizzard, and returned. Took his picture in travelling or hunting costume (long-skirted caribou-skin coat with hair inside), under long-tailed coat (with hair outside). Snow knife carried in hand.

*5. (285) Kokeark. Young man, in travelling costume (storm). Print: 8 - 1/50 - Hazy Sun & Shadow

6. (286) 1 dot. Side view.

We were invited out twice today to eat seal meat and blood soup in different houses, the same as we were yesterday. Cooking is a slow process over blubber lamps, and the meat is often eaten half raw. When two families occupy same house, each woman has her own lamp, one on each side of door. While meat was cooking, noticed yesterday, three different women cooking. While the pot was simmering, the woman would occasionally cut off a piece of raw

April 12 (Wed).

seal blubber, chews it a little, and dexterously spits the oil ~~into~~ into the pot of boiling meat. When meat is removed from pot, the woman squeezes it between her hands to remove excess water, blood, and grease, cuts it up and hands to each person present (family, guests, &c.) his portion. When the meat eating is finished each person receives a cup or horn dipper of the seal blood soup, usually lukewarm. A few more cranial measurements were taken today, and considerable trading done.

The men say that a few Ugyuk have been seen on top of the ice, but the Natyuk (P. ~~foetida~~ hispida) do not appear on the ice until much later in the season (when the sun does not disappear below the horizon, and there is water on the ice). They asked both S. and myself to wish them success in their sealing tomorrow, to exercise some charm or spell to bring seals quickly to them. We would not need to go out on the ice with them, but as Billy said "think strong, all same doctor" (angakoq).

Seals.

The cottony balls of some species of grass (i'vik) is used for lamp wicks (willow "uk'pik" cotton may also be used). Dried Ptarmigan excrement used for

April 12 (Wed.)

The people, Billy men and women, were asked to show us their cats cradles. and at least twenty were rapidly made, the intricate web of string being manipulated with such rapidity and dexterity that the movements could scarcely be followed. Some of their cats cradles were the same as those that Billy and Tannanmirk knew, and others were unknown to the latter. T. knows songs that go with some of his cats cradles — none known here. Saw Tiraganiak (white fox), Amarok (wolf), Tuktu (caribou), Umingmak (Musk ox), Dogs with pouches. Natsik (Seal), Kongak (a beast whose nature and habits were unknown — name only known), Kelivak (Mammoth, said the bones had never been seen, name only known), lynx, Nannuk (W. Bear), Tiriak (Weasel), Nangak (Sea Gull), Ptarmigan, Swan, etc. As the drawing of the games proved too difficult, we preserved several by laying the completed pattern on a piece of cloth and making it fast with a few stitches. Natives in this region are somewhat superstitious about playing this game (except when one

April 12 (Wed.)
is taken foreign and are afraid
while (Ik.) — except when in a crowd.
Tonight some noise was heard outside while
game was going on (probably a dog), and
a complete silence ensued for about two minutes.
The people probably because it was late anyhow
soon went home. I. said they thought
the noise might have been made by a turnrat
(spirit, ghost ?). Sky cleared about 10 p.m. and
wind lowered to a mere breath.

April 13. (Thurs.). Wind blowing rather strong
from SW. and snow drifting today. Hazy sun.
Cold. Billy went with our sled and dogs, and two
women from this village, to visit next village East.
starting at 9.30 a.m.

(287) #7. Rack (cache) of snow blocks. 11 — 1/100 — Hazy sun 9.30 a.m.

(288) #8. Deserted snow houses, showing hole cut inside where owners had removed goods on leaving. 11 — 1/100 — B.S. 9.3

(289) #9. Women (Ainanyak and Anaktak) in travelling (Storm) costume. 11 — 1/100 — B.S. 9.30 a.m.

(290) #10. Kinnaktak. Old woman. 11 — 1/100 — Hazy sun 9.30 am

Ainahirk, an old woman, made me a
pair of sealskin slippers (tuktukaliak) to order,

April 13 (Thurs).

for a milk can, with cover. She preferred the can to a jack knife and Enamel saucer which I offered her first; said she was no child, and did not want a small knife. She also made another pair for S. at same price.)

A Pac River man told us this morning that he had seen two Moose (he thought Cows, with small horns) near mouth of Pac River, a year or two ago. Reported Moose had ever been seen there.

Two boys, Kannaijak and Kakolatt, arrived about noon. Said that people had recently moved from Valley, East of here, but all were coming here tomorrow. Showed them our small stock of hardware and they showed great excitement. Kannaijak One traded his sealing spear for a butcher knife, and three copper-tipped arrows for two needles. The other, Kakolatt offered his outer storm coat (ornamental white and dark caribou skin) and outer pants (caribou skin) for a similar butcher knife. He tried to get it the coat in a great hurry, apparently afraid we would back out of the trade. Said he did not need coat because his people were coming tomorrow

April 13 (Thurs.).

Made sketch drawings in U.S. notebook of tattoo marks on hand and forearm of woman named Manik — a series of parallel marks across first joints of fingers, back of hand, V-shaped marks on wrists, and parallel, broken, lines around forearm. Also drew sketch of woman's face, showing tattoo marks, five diverging lines from middle of lip to chin, three diverging lines from alae of nose to point in front of ears, and two parallel V-shaped marks on forehead, apex at bridge of nose, and ~~points~~ extending on forehead to roots of hair. Arrow-shaped mark with apex at outer edge of each eye, and extending across temples.

Snow-house remains at comfortable temperature most of the time, although lamp is kept burning very low most of the time, as water drips when temperature rises. If water begins to drip from roof, a small piece of snow is pressed against the spot for a minute, until it sticks fast. The snow is removed when it becomes water-soaked and about ready to drop. When houses are built of snow which is more uniform in density, it melts evenly, forming an ice dome which drops little

April 13 (Thurs.).

Several people arrived from other villages in evening. Billy and the woman had found old village deserted, and followed trail to new site, a little SW of here. The people had caught seven seals there today. Several fine articles of clothing were seen among the new arrivals, but little trading was done tonight. The local people are nearly sold out of surplus stock.

April 14 (Fri.). Clear. Cold. Brisk westerly wind blowing until about 1 p.m., and snow drifting. Wind lowered after 2 p.m., very light in evening. The rest of people arrived in morning. No new houses were built. One large house was made into a double house, for a dance house, and there was a little dancing before the visitors left. Some of the visitors had apparently been to the ship, and still wore their "fancy" garments — local villagers have disposed of much of theirs. One man, Anaiak, soldier a complete outer suit, Canvas coat, pants, leggings, and seal skin slippers for combination tool (9 tools in holder handle), mittens were bought separately. A complete suit of women's outer garments was bought for.

April 14 (Fri.)

Whenever an article of clothing is bought, the seller always cuts off a small bit of skin and keeps it. If the wife of the seller (probably the maker of garment) is present, he hands the scrap to her at once. Sometimes in the excitement of trading, the seller overlooks cutting off the piece of garment, and comes around later to perform the ceremonial act.

Photos

#1. (201) Anaiyak (Man about 45) in fancy decorated suit. Suit bot). 11 - 1/100 - B.S. 9 a.m. Front view

#2. (202) do - (Rear view).

#3. (203) Snow-house building (half-completed), near village. Built by natives for one occupancy 8 - 1/100 - B.S. 5 p.m.

#4. (204) Snow house (Kaiariok's) with keystone of dome being put in place. 8 - 1/100 - B.S. 5:30 p.m.

#5. (205) Completed village. 8 - 1/50 - 5:45 p.m. B.S.

#6. (206) Kaiariok's house completed, with entrance passage, and sled about to be unloaded. 8 - 1/50 - B.S. 5:45 p.

#7. (207) Kaiariok (in fringed outer coat), and Ulipsiina (old man with beard), standing beside sled loaded for travel. Sled loaded with several skin bags packed squarely like trunks or a baggage van. 8 - 1/50 - B.S. 6 p.

April 14 (Fri.)

*8. Tent (caribou skin, hair inside), with snowwall. (Hualiff). 6 - 50 - 6[m] p.m. Bright sunshine

Our snowhouse was begun for us before we arrived, and built well, with long passageway. Pots were put on, and we were invited to eat as soon as cooking was finished. Dave S. had seal meat and soup in Ulipsinna's house, and as soon as we had eaten our fill, were invited to another house. I declined, however, owing to lack of capacity. The people at the other village were getting a little short of meat. Some of the men were going out sealing yesterday, but did not; said afterwards they thought we might get lonesome. Today the new arrivals had to be entertained. Heretofore we have been continually invited out, but people haven't much to offer. We were cleaned out of our Caribou meat the first day we arrived. ~~The people~~ We offered some to the first people who came in, and every fresh arrival helped himself liberally without invitation. We were praised as being very good people for bringing Caribou meat out on the pack where people seldom had anything but seal meat. The footless man and his wife repeatedly praised S's liberality for giving them a

Specimens (continued from page 137).

*547. ♂ Wolf (ad.) white. Kendall River N.W.T. Mar. 28. '11.
548. ♂ Caribou ad. Coppermine River " Apr. 1, 1911.

April 14 (Fri.)

Caribou last summer near Great Bear Lake. They were the only people who stole anything from us here - a large combination knife (7-8 blades) and a fork. We missed them and S. happened to see them in a tool bag which in the main house next day. He did not offer to bring them back, but S. bought some things from him next day, and suggested that for payment he should keep the knife which he had taken. He accepted this. Missed a dog-chain when we were about to start. This may have been buried too deeply in snow, however, to be found. People, on the whole, have treated us well - but we haven't had much rest. Kinnayat came over every morning between 5-6 a.m., and started lamp burning, "so that our boots could be drying". It takes skill to keep lamp trimmed evenly and prevent it smoking. Few of the houses seem to be smoked inside, and skin clothing (of people dressed inside), seems to be very clean (white a bulky), even if considerably worn. Great care is taken to keep clothing free from fleas.

Specimens taken, and described in this book.

503.	Stratum underlying coal	Coal Creek, Horton River.	N.W.T.	Dec.	16.	1910		
504.	Coal.	"	"	"	"	"	"	"
505.	Stratum overlying coal.	"	"	"	"	"	"	"
506.	Str. 10' above coal seam.	"	"	"	"	"	"	"
507.	Coal, right bank	"	"	"	"	17,	"	
508.	" " "	"	"	"	"	"	"	
509.	" " "	"	"	"	"	"	"	
510.	" " "	"	"	"	"	"	"	
511.	" " "	"	"	"	"	"	"	
512.	Rock from Ramparts	"	"	"	"	18,	"	
513.	" " "	"	"	"	"	"	"	
514.	" " "	"	"	"	"	"	"	
515.	" " "	"	"	"	"	"	"	
516.	Quartz crystals, with matrix	"	"	"	"	19.	"	
517.	Rock, near Capt. W's house	"	"	"	"	"	"	
518.	" hills, East of river	"	"	"	"	20.	"	
519.	" 400 ft. above R., left bank	"	"	"	"	22	"	
520.	" 200 " " " "	"	"	"	"	"	"	
521.	" body of Ramparts	"	"	"	"	"	"	
522.	" base " "	"	"	"	"	"	"	
523	New base of upper rampart	"	"	"	"	23	"	
524.	" " " " "	"	"	"	"	"	"	

5'25. Rock, near base of upper canyon Horton R. N.W.T. Dec. 23/1910.

5'26. " " " " " " " " " " " "

5'27. Rock, right bank of river " " " " 26 "

5'28. Last rock exposure, left bank " " " Jan. 1. 1911

5'29. Rock, barrens, 5 mi. E., 4 or 5 ft. above " " " Dec. 29/1

5'30 ♂ Barren Ground Bear (skull) Dease River, G.B. Lake 1910

5'31. ♂ Wolverine (Gulo luscus) Dease River, N.W.T. Jan. 29, 1911.

5'32. ♂ Caribou ad. Caribou Point, Gt. Bear Lake Feb. 5, 1911.

5'33. ♀ " ad. " " " " " " " " "

5'34. ♀ " juv. " " " " " " " " "

5'35. ♀ " " " " " " " " " " "

5'36. ♀ Wolf ad. (white) " " " " " " 16, "

5'37. ♀ Caribou juv. Dease River. Gt. Bear Lake. " 22 "

5'38. ♂ " " " " " " " " 24. "

5'39. ♂ " " " " " " " " " "

5'40 ♂ " ad. (hornless) " " " " " " 25 "

5'41. ♀ " " (hornless skull). " " " " " 24, "

5'42. ♀ " " (horned) " " " " " " " "

5'43 ♀ Wolverine (skull). " " " " " 27. "

5'44. ♂ Wolf ad. (Gray). " " " " " 28 "

5'45. ♂ Wolverine (skull) " " " " Mar. 2, "

5'46. ♀ Wolverine " " " " " 21 "

Jer. Spec. 573-579

Ex sa mang'ùnnama

Anderson, R.M. ,Field Notes Book VIII

13 Dec 1910--14 Apr 1911

Diary--kept daily about travel, weather, experiences and species of animals observed.
--includes a list of specimens taken and described in the book.

Route covered--From Langton Bay, N.W.T., Canada, across Melville Mountains to Horton River, up Horton River to Barren Grounds, to Great Bear Lake, Dease River, Caribou Point, Dismal Lake, Kendall River, Coppermine River, Coronation Gulf.

Type of book--Original, handwritten. Black leather cover with some gold trim. 20 cm X 12.6 cm X 1.2 cm. On spine there are 2 areas that are not covered. The first is on the top part and is 7.0 cm long. The second is at the bottom and is 4.6 cm long.

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